#### V.V.SANGHA'S

#### **VEERASHAIVA COLLEGE**

Cantonment, Ballari- 583104, Karnataka.

www.veerashaivacollege.org



### Criteria-II: TEACHING LEARNING PROCESS

2.5.1: Mechanism of internal/external assessment is transparent and grievance redressal system is time-bound and efficient (Q.M)

#### **Copy Enclosed**

IA Question papers



Semester: III IA Test No :1
Max. Marks: 20 Advanced Condensed Matter Physics (21PHY3E1AL)

Date:22-02-2023 Duration: 60 Min

Q1). a) Expression for length of reciprocal lattice vector $\overset{ ightharpoonup}{H}$ in terms of interplanar	spacing of the
lattice plane.	
b) Obtained reciprocal lattice of BCC.	(6+4M)
(OR)	
Q2) a) Derive an expression for Internal field according to Lorentz.	
b) explain the concept of static dielectric constants of gases.	(6+4M)
Q3] Give an account of Brillouin Zone function.	(5M)
(OR)	
Q4] explain silent feature of APW method of band structure calculation.	(5M)
Q5] Give an expression for static dielectric constants of solids.	(5M)
(OR)	
Q6] explain about macroscopic description of static dielectric constant.	(5M)



Semester: III Max. Marks: 20 IA Test No :1 Renewable Energy physics (21PHY3E2CL)

Date:23-02-2023 Duration: 60 Min

Q1) Explain the classification of energy resources with their advantages.  (OR)	(10M)
Q2) Explain the construction and working principle of Hydro Electric Power unit.	(10M)
Q3] Differentiate between Power and Energy.  (OR)	(5M)
Q4] What are the advantages and limitation of non renewable energy sources?	(5M)
Q5] With a schematic diagram explain the working principle of Nuclear reactor.	(5M)
(OR)	
Q6] Write a note on commercial energy sources.	(5M)



Semester: III Max. Marks: 20 IA Test No :1 Thermal and Statistical Physics (21PHY3C9L)

Date:20-02-2023 Duration: 60 Min

cal ensemble.
(6+4M)
tating particle.
(7+3M)
(5M)
(5M)
(5M)
1 5
(5M)



Semester: III IA Test No :1 Date :21-02-2023 Max. Marks: 20 Analytical Techniques & Instrumentation (21PHY3C9L) Duration : 60 Min

Q1] a) Explain in detail about types and classification of analytical instruments.	
b) Explain any two instrument calibration techniques in details.	(6+4M)
(OR)	
Q2]. a) Describe in detail, the principle and instrumentation of Raman Spectroscopy.	
b) List any five applications of Raman Spectroscopy.	(7+3M)
Q3] Write a note on smart sensors.	(5M)
(OR)	
Q4] Explain the performance characteristics of Transducers.	(5M)
Q5] Explain the sample handling techniques.	(5M)
(OR)	
Q6] Differentiate between Raman and Infrared Spectroscopy.	(5M)



# V.V Sangha's Veerashaiva College, Ballari Department of Political science B.Com and BCA I st SEM II Internal 2022-23

Subject: HUMAN RIGHTS (

(Marks-20)

#### I. Answer the following questions

(5\*1=5)

- 1. Who is the chairman KSHR?
- 2. Who is the prime minister of India?
- 3. What is equality?
- 4. When was declaration of human rights
- 5. What is human rights?

#### II. Answer the following questions

(1\*5=5)

6. write the function of NHRC?

#### III. Answer the following questions

(1\*10=10)

7.explain the function of KSHR?



# V.V Sangha's Veerashaiva College, Ballari Department of Political science B.Com and BCA I st SEM I Internal 2022-23 Subject: HUMAN RIGHTS

(Marks-20)

#### I. Answer the following questions

(5\*1=5)

- 1. Who is the chairman NHRC?
- 2. Who is the first Citizen of India?
- 3. What is equality?
- 4. who is divider of human generation?
- 5. What is human rights?

#### II. Answer the following questions

(1\*5=5)

6. write the classification oh human rights?

#### III. Answer the following questions

(1\*10=10)

7.explain the nature and scope of human rights?



#### vv.sangha's

#### Veerashaiva College, Ballary 2022-23

#### Department of political science

#### Subject:- International relations

#### 1st internal

Class:- BA. 6th semester

Time :- 1 Hour

Marks :- 20

- I. Answer any two of the following questions.
  - 1. Explain the causes war?
  - 2. Write the importance international relations?
  - 3. Explain the evaluation of INR?



#### vv.sangha's

#### Veerashaiva College, Bellari 2022-23

#### Department of political science

#### Subject:- International relations

#### 2nd internal

Class:- BA. 6th semester

Time :- 1 Hour

Marks :- 20

#### I. Answer any two of the following questions.

- 1. Explain the foreign policy of India?
- 2. Write the structure of league of nation
- 3. Explain the achievement of UNO?



Semester: III Max. Marks: 20

IA Test No: 1
GEC 1: Hormones and Disease (21Z003G1CL)

Date: 25-02-2023 Duration: 60 Min

#### I. Answer all the following questions, each carries ONE mark.

1x4=4Marks

- 1. Define Harmones.
- 2. Why pituitary gland is called master gland?
- 3. What are Endocrine glands?
- 4. Name the harmones secreted by Adrenal gland.

#### II. Answer all the following questions, each carries TWO marks.

2x3=6Marks

- 5. List out the Endocrine glands in human body.
- 6. What is the function of Thyroid gland?
- 7. Write the symptoms of Addison's disease.

#### III. Answer all the following questions, each carries FIVE marks,

5x2=10Marks

- 8. Explain the structure and function of Pituitary gland with neat labeled diagram.
- 9. Discuss the diseases of Adrenal gland in detail.



Semester: III Max. Marks: 20	IA Test No :2 Analytical Techniques & Instrumentation (21PHY3C9L)	Date :24-03-2023 Duration : 60 Min
Q1] a) Discuss th	e principle and working of Differential Scanning Calorimeter.	
b) List out t	he application of X-Ray Diffraction.	(6+4M)
	(OR)	
Q2] a) With scher Spectroso	matic diagram explain the principle and working of UV-visible opy.	absorption
b) Write a no	ote on Atomic absorption Spectroscopy.	(6+4M)
Q3] Distinguish b	etween TEM and STEM.	(5M)
	(OR)	
Q4] Write a note	on Ion Scattering Spectroscopy.	(5M)
Q5] Explain abou	t Plasma Excitation sources of Atomic Emission Spectroscopy.	(5M)
	(OR)	
Q6] Explain abou	t Instrumentation of Spectrofluorimeter.	(5M)



Semester: III Max. Marks: 20

Q6] Write a note on Brownian motion.

IA Test No :2 Thermal and Statistical Physics (21PHY3C9L)

Date:23-03-2023 Duration: 60 Min

(5M)

Q1] a)Derive an expression for Bose-Einstein and Fermi Dirac distribution. (10M)

(OR)

Q2] a)Derive an expression for Fluctuation in grand canonical Ensemble.
b) Derive an Einstein relation for mobility of a particle. (6+4M)

Q3] Show that the Anti-symmetric nature of fermionic wave function leads to Pauli's Exclusion principle. (5M)

(OR)

Q4] List out the difference between bosons and Fermions. (5M)

Q5] Explain Thermoelectric phenomena. (5M)



Semester: III

IA Test No :2

Max. Marks: 20 Advanced Condensed Matter Physics (21PHY3E1AL)

Date:25-03-2023

Duration: 60 Min

Q1)a) Derive an expression for Langevin classical theory of Paramagnetism.	
b) Write a note on classification of magnetic materials.	(7+3M)
(OR)	ā
Q2) Discus the electrodynamics for superconductor – London equation.	(10M)
Q3] Write a note on BSC theory.	(5M)
(OR)	
Q4] write a note on Nuclear magnetic Resonance.	(5M)
Q5] Distinguish type I and type II superconductors.	(5M)
(OR)	
Q6] explain about Meissner effect and coherence length of superconductivity.	(5M)



Semester: III Max. Marks: 20

IA Test No: 2
GEC 1: Hormones and Disease (21ZOO3G1CL)

Date: 27-03-2023 Duration: 60 Min

#### I. Answer all the following questions, each carries ONE mark.

1x4=4Marks

- 1. Define Cancer.
- 2. Name the male Harmone?
- 3. What is Hirsutism?
- 4. Define Stress.

#### II. Answer all the following questions, each carries TWO marks.

2x3=6Marks

- 5. What are the symptoms of polycystic ovaries disease?.
- 6. Mention the functions of melatonin.
- 7. Write any two characters of Hyperandrogenism.

#### III. Answer all the following questions, each carries FIVE marks.

5x2=10Marks

- 8. Discuss the general organization of Ovary and its Harmones.
- 9. Explain the following:
  - a) Obesity
  - b) Sleep Disorder
- c) Jet lag



Semester: III Max. Marks: 20 IA Test No :2 Renewable Energy physics (21PHY3E2CL)

Date :27-03-2023 Duration : 60 Min

Q1) a) Explain the construction and working of Solar cell.	
b) List out the applications of solar cell.	(7+3M)
(OR)	
Q2 a) Explain the process of photosynthesis.	
b) List out the factors influencing photosynthesis.	(7+3M)
Q3] Write a note on stand alone and grid connected solar PV systems.	(5M)
(OR)	
Q4] Mention the applications of street lighting and domestic lighting.	(5M)
Q5] Explain the production of biomass to Ethanol.	(5M)
(OR)	
Q6] Write a note on Biomass conversion technologies.	(5M)



Semester: IV Max. Marks: 20 IA Test No :1 Advanced and Quantum mechanics (21PHY4C11L)

Date :24-08-2023 Duration : 1 hr

		Duration: 1 iii
Q1]. a) Briefly discu	ss the Einstein's A and B Coefficients with relevant examples.	
b) State Fermi g	olden rule and its applications for time dependent Perturbati	on theory.
	A.S	(7+3)
	(OR)	
Q2]. a) What are synmetric w	mmetric and anti-symmetric wave functions? construct anti-s vave functions from unsymmetrized wave function.	ymmetric and
b) Write a note	on Exchange integral spin angular momentum.	(5+5)
Q3] What is perturb	ation theory? Explain time dependent perturbation theory.	(5)
	(OR)	
Q4] Mention the app	olications of first order perturbation theory.	(5)
Q5] Explain the phys	sical significance of Wave function.	(5)
	(OR)	
Q6] Derive an expres	ssion for constant perturbation theory.	(5)



Semester: IV Max. Marks: 20	IA Test No :1 Electromagnetics(21PHY4C12L)	Date :25-08 Duration : 1	
Q1]. Obtain Laplace and Pois	sson's equations in Electrostatics.		(10)
	(OR)		
Q2]. Derive an expression fo distribution.	r multipole expansion of magnetic vector potentia	ıl of a localized c	urrent (10)
Q3] State and prove Uniquer	ness theorem.		(5)
	(OR)		
Q4] Obtain gauss law in inte	gral form.		(5)
Q5] Derive an expression for	Ampere's circuit law in magnetostatic field.		(5)
	(OR)		
Q6] Explain the effect of mag	netic field in matter.		(5)
	v.v sangha's Veerashaiva college .Ballari Department of Studies in Physics		
Semester: IV Max. Marks: 20	IA Test No :1 Semiconductor Physics(21PHY4E3AL)	Date :26-08-2023 Duration : 1 hr	
Q1].Derive an expression for	the electrical conductivity of an Intrinsic Semicon (OR)	ductor.	(10)
Q2]. a) What are Interband a	nd Intraband transitions? Explain		
b) Discuss the absorptio	n process involving impurities in semiconductors.		(4+6)
031 Differentiate between Ir	atrinsic and Extrinsic Semiconductors.		(5)
• ,			
<b>~</b>	(OR)		
		(5)	
Q4] Explain the band structu		(5) (5)	
Q4] Explain the band structu	re of Silicon.	100 (AT 100 (A	

AND THE SHEAT AND THE SHEAT OF THE SHEAT OF

Semester: IV Max. Marks: 20

Q6] Write a note on Laser amplifier.

#### IA Test No :1 Lasers and optical fibers (21PHY4E4AL)

Date :28-08-2023 Duration : 1 hr

(5)

Q1]. With a schematic energy level diagram, Explain the construction and working of Argon	on Laser (10)
(OR)	75 V
Q2]. a) Derive an expression for the fundamental or first Harmonic polarization	
b) Estimate the peak power or total energy emitted by the pulse of a Q-switched Laser.	(6+4)
Q3] List out the various medical applications of Lasers.	(5)
(OR)	- 1
Q4] With a neat diagram explain the working of Semiconductor diode laser.	(5)
Q5] Explain the general characteristics of Q-switching Laser.	(5)
(OR)	C
Q6] Write a note on Laser amplifier.	(5)
v.v sangha's Veerashaiva college .Ballari Department of Studies in Physics	
Semester: IV IA Test No :1 Date :07-0 Max. Marks: 20 Lasers and optical fibers(21PHY4E4AL) Duration	(50) 5
Q1]. With a schematic energy level diagram, Explain the construction and working of Argon I	on Laser. (10)
(OR)	5.000 ( <del>5</del> .)
[22]. a) Derive an expression for the fundamental or first Harmonic polarization	
b) Estimate the peak power or total energy emitted by the pulse of a Q-switched Laser.	(6+4)
[23] List out the various medical applications of Lasers.	(5)
(OR)	.,
[24] With a neat diagram explain the working of Semiconductor diode laser.	(5)
Q5] Explain the general characteristics of Q-switching Laser.	(5)
(OR)	
7.71 TIT (1.72)	

# V.V. Sangha's VEERASHAIVA COLLEGE, BALLARI DEPARTMENT OF PHYSICS B.Sc. IV Semester Thermal Physics and Electronics

#### Second Internal Test

Date: 11-08-2023

Max Marks: 20

Date: 11-08-2023

Answer the Following Questions:

Max Marks: 20

5 marks Each

Answer the Following Questions:

5 marks Each

- Define Entropy and explain the physical significance of entropy.
- Show that at absolute zero degree Kelvin, the temperature is same on Thermodynamic scale and perfect scale.
- State third Law of Thermodynamics and explain its significance.
- What are electronic Adder circuits. Explain Full Adder circuit.

Define Entropy and explain the physical significance of entropy.

- Show that at absolute zero degree Kelvin, the temperature is same on Thermodynamic scale and perfect scale.
- State third Law of Thermodynamics and explain its significance.
- What are electronic Adder circuits. Explain Full Adder circuit.

V.V. Sangha's

VEERASHAIVA COLLEGE, BALLARI

DEPARTMENT OF PHYSICS

B.Sc. IV Semester

Thermal Physics and Electronics

Second Internal Test

# V.V. Sangha's VEERASHAIVA COLLEGE, BALLARI DEPARTMENT OF PHYSICS B.Sc IV Semester Thermal Physics and Electronics First Internal Test Max Marks 20

Answer any four of the Following:

Each of 5 marks

- State and explain first law of thermodynamics and Obtain an expression for work done during isothermal process.
- 2. Obtain an expression for the efficiency of Carnot's engine.
- 3. Explain the working of half wave and full wave rectifier.
- Discuss the characteristics of NPN Transistor and obtain expression for current gain.
- 5. Explain the functioning of FET and its characteristics.

V.V. Sangha V.V. S

2023

B.Sc IV Semester

Thermal Physics and Electronics
First Internal Test Max Max

Max Marks 20

Answer any four of the Following:

Each of 5 marks

- State and explain first law of thermodynamics and Obtain an expression for work done during isothermal process.
- Obtain an expression for the efficiency of Carnot's engine.
- 3. Explain the working of half wave and full wave rectifier.
- Discuss the characteristics of NPN Transistor and obtain expression for current gain.
- 5. Explain the functioning of FET and its characteristics.

# V.V. Sangha's VEERASHAIVA COLLEGE, BALLARI DEPARTMENT OF PHYSICS B.Sc. VI Semester 6.1 Nuclear physics, Solid State Physics, Astrophysics and Biophysics

#### **Second Internal Test**

Date: 09-08-2023

Max Marks: 20

Answer the Following Questions:

5 marks Each

- With a neat diagram, Explain the principle and working of Bio-gas plant.
- 2. Discuss the principle and working of Nuclear reactor.
- Explain Langevin Classical theory of magnetic materials.
- 4. Explain BCS theory of Superconductivity.

V.V. Sangha's
VEERASHAIVA COLLEGE, BALLARI
DEPARTMENT OF PHYSICS
B.Sc. VI Semester
6.1 Nuclear physics, Solid State Physics,
Astrophysics and Biophysics

#### Second Internal Test

Date: 09-08-2023

Max Marks: 20

Answer the Following Questions:

5 marks Each

- 1. With a neat diagram, Explain the principle and working of Bio-gas plant.
- 2. Discuss the principle and working of Nuclear reactor.
- Explain Langevin Classical theory of magnetic materials.
- 4. Explain BCS theory of Superconductivity.

# V.V. Sangha's VEERASHAIVA COLLEGE, BALLARI DEPARTMENT OF PHYSICS B.Sc VI Semester— 6.2 Material Science and Electronics-II First Internal Test Max Marks 20

Answer any four of the Following:

5 mark Each

- Explain chemical evaporation method of preparation of thin films.
- 2. Write a brief note on application of thin films.
- With a neat diagram explain the working of Phase shift Oscillator.
- What is the concept of feedback and Write a note barkhausen criteria.
- 5. Obtain an expression for frequency of Hartly oscillator.

V.V. Sangha's

VEERASHAIVA COLLEGE, BALLARI

DEPARTMENT OF PHYSICS

B.Sc VI Semester— 6.2

Material Science and Electronics-II

First Internal Test

Max Marks 20

Answer any four of the Following:

5 mark Each

- Explain chemical evaporation method of preparation of thin films.
- 2. Write a brief note on application of thin films.
- 3. With a neat diagram explain the working of Phase shift Oscillator.
- What is the concept of feedback and Write a note barkhausen criteria.
- 5. Obtain an expression for frequency of Hartly oscillator.

#### VEERASHAIVA COLLEGE, BALLARI DEPARTMENT OF PHYSICS

#### B.Sc VI Semester- 6.1

Nuclear Physics, Solid state Physics, Astrophysics and Biophysics

First Internal Test

Max Marks 20

Answer any four of the Following:

Each of 5 marks

- 1. Write a note on Nuclear forces.
- 2. Explain Liquid drop model of the nucleus.
- 3. Derive an expression for mean life of radioactive nucleus.
- 4. Discuss Gamow's theory and explain Geiger Nuttle law.
- 5. Explain Fermi theory of beta energy spectrum.

V.V. Sangha's

### DEPARTMENT OF PHYSICS

B.Sc VI Semester-6.1

Nuclear Physics, Solid state Physics, Astrophysics and Biophysics

First Internal Test

Max Marks 20

Answer any four of the Following:

Each of 5 marks

- 1. Write a note on Nuclear forces.
- 2. Explain Liquid drop model of the nucleus.
- 3. Derive an expression for mean life of radioactive nucleus.
- 4. Discuss Gamow's theory and explain Geiger Nuttle law.
- 5. Explain Fermi theory of beta energy spectrum.

# V.V. Sangha's VEERASHAIVA COLLEGE, BALLARI DEPARTMENT OF PHYSICS B.Sc. VI Semester 6.2 Material Science and Electronics -II

#### Second Internal Test

Date: 10-08-2023

Max Marks: 20

Date: 10-08-2023

Max Marks: 20

5 marks Each

**Answer the Following Questions:** 

5 marks Each

- Answer the Following Questions:
- With neat Truth table and circuit diagrams. Write a note on OR, AND & NOT gate.
- 2. Explain the functions of RS and JK flip-flops.
- What are electronic Adder circuits. Explain Full Adder circuit.
- 4. Write a note on Astable multi-vibrator.

- With neat Truth table and circuit diagrams.
   Write a note on OR, AND & NOT gate.
- 2. Explain the functions of RS and JK flip-flops.
- 3. What are electronic Adder circuits. Explain Full Adder circuit.
- 4. Write a note on Astable multi-vibrator.

V.V. Sangha's

**DEPARTMENT OF PHYSICS** 

**B.Sc. VI Semester** 

6.2 Material Science and Electronics -II

Second Internal Test

VEERASHAIVA COLLEGE, BALLAR

### VEERASHAIVA COLLEGE, BALLARI DEPARTMENT OF PHYSICS

#### B.Sc. V Semester

### Paper 5.1: Atomic and Molecular Physics Theory First Internal Assessment (I A-I)

Date: 02:01:2023 Time: 12:00 to 1:00 noon

#### I. Answer the following:

5 Mark each

- 1. Obtain the expression for charge of an electron by Millikan's oil drop method.
- 2. Deduce the specific charge of electron by J. J. Thomson's method.
- Explain the theory of pure rotational spectra of diatomic molecule with energy level diagram.
- 4. Explain the fluorescence and phosphorescence using quantum theory of radiation.

# VEERASHAIVA COLLEGE, BALLARI DEPARTMENT OF PHYSICS B.Sc. V Semester Paper 5.1: Atomic and Molecular Physics Theory

First Internal Assessment (I A-I)

Date: 02:01:2023

Time: 12:00 to 1:00 noon

#### I. Answer the following:

5 Mark each

- 1. Obtain the expression for charge of an electron by Millikan's oil drop method.
- 2. Deduce the specific charge of electron by J. J. Thomson's method.
- 3. Explain the theory of pure rotational spectra of diatomic molecule with energy level diagram.
- 4. Explain the fluorescence and phosphorescence using quantum theory of radiation.

### VEERASHAIVA COLLEGE, BALLARI DEPARTMENT OF PHYSICS

#### **B.Sc. V Semester**

## Paper 5.2: Statistical mechanics, Quantum mechanics and Electronics-I First Internal Assessment (I A-I)

Date: 03:01:2023

Time: 12:00 to 1:00 noon

#### I. Answer the following:

5 Mark each

- 1. Explain the construction and working of full wave rectifiers.
- 2. Explain the transistor as an amplifier in CE-Mode.
- 3. Derive an expression for De-Broglie's wavelength.
- 4. Explain with a neat diagram the Davisson and Germer experiment.

#### VEERASHAIVA COLLEGE, BALLARI DEPARTMENT OF PHYSICS

**B.Sc. V Semester** 

Paper 5.2: Statistical mechanics, Quantum mechanics and Electronics-I First Internal Assessment (I A-I)

Date: 03:01:2023

Time: 12:00 to 1:00 noon

#### I. Answer the following:

5 Mark each

- 1. Explain the construction and working of full wave rectifiers.
- 2. Explain the transistor as an amplifier in CE-Mode.
- 3. Derive an expression for De-Broglie's wavelength.
- 4. Explain with a neat diagram the Davisson and Germer experiment.

5.

20

## VEERASHALVA COLLEGIE Department of Mouthenactics

Sub: ODE & Real analysin - I

Mar mar: 20

Pime: 1 hour

FIRST Internal

- IT Amwer any four of the following 4x5=20m
- 1. Verify the condition of integrability and some yzigzdx - zxlogzdy + xydz = 0
- Define Uppear and lower Dauxbox Sumn &m

  (a) Af fa)=2x-1 on [0,1] & p=\0,\frac{1}{3},\frac{2}{3},1].

  Find the Uppear Dauxbox Sum & Lower

  Dauxbox Sum

  3m
- 3. At  $f \in R[a,b] \in m$ , M are infimum and supremum of f(x) on f(a,b) then p.p.  $m(b-a) \leq \int_a^b f(x) dx \leq M(b-a)$

Department of Mathematics Veerashaiva College, Bail.....

4

## VEERASHAIVA COLLEGE

First Internal (paper - 1.1) - 2022-23

Subject: - Mathematics

Answer any Four of the following [4x5=30]

1) Find the Pank of the matrix A by Elimentary JOH - Operation (or) POW - reduced Echelon form.

a) istate Cay-ley - Hamilton Theorem ii) wing cay-ley-Hamilton Theorem find A

$$A = \begin{bmatrix} 1 & 0 - 1 \\ 1 & 2 & 1 \\ 2 & 2 & 3 \end{bmatrix}$$

3) Find the neal value of ), for which System  $x + ay + 3z = \lambda x$ 3x + y +2Z = >y have non-zero solution. 2x + 3y + 2 = > Z

4) Peduce the matorix A to its normal form.

where 
$$A = \begin{bmatrix} 1 & 1 & 1 & 2 \\ 2 & 1 & -3 & -6 \\ 3 & -3 & 1 & 2 \end{bmatrix}$$

Department of Mathematics Veerashaiva College, Ballari.

```
VEERASHASVA COLLEGE
```

Second Internal Assesment

Subject: Mathematics (Graph theory - 5.3)

Time: 1 hr

Max marky: 30 mc

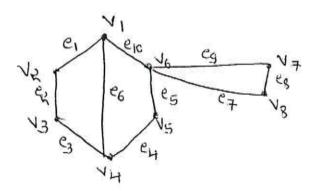
Took : Bisc-5th sen

I) Answer any five of the tollowing 5x6=304

i) Find the graph whose incidence material ix

and find its adjusterity matrixs.

2] Find the cycle matrix of



- 3) State and prove Whitney's theorem
- H] Explain Konigbergin seven bridge problem.
- 5] Af G is a graph with P≥3 vertices such that for all pairs of distinct non-adjacent vertices u&v degut degv ≥p then G in Hamiltonian graph.

#### Vv Sangha's

#### VEERASHAIVA COLLEGE

#### Department of Mathematics

SUB:-DSC2: Algebra and Calculus (2.1) Theory

Maximum marks=20

Time: 1hour

B.sc 2nd semester: First internal

40A400643040742023

#### I )Answer any Four of the following

[4\*5=20]

- 1) Evaluate  $\int_c (3x + y)dx + (2y x)dy$  along the curve  $y = x^2 + 1$  from (0, 1) to (3, 10).
- 2) Solve  $\int_0^2 \int_1^2 xy(1+x+y)dx \, dy$
- 3) Solve  $\int_0^1 \int_0^3 \int_{x^2}^{\sqrt{x}} (x + y + z) dy dz dx$
- 4) Evaluate  $\int_C (3x 2y)dx + (y + 2z)dy x^2dz$  Where C is the curve defined by x=t,  $y=2t^2$ ,  $z=3t^3$  and  $t \in [0,1]$ .
- 5) Evaluate line integral  $\int x^2y^2ds$  around the circle  $x^2+y^2=1$
- 6) Solve  $\int_{0}^{b} \int_{\frac{X^{2}}{b}}^{2b-x} xy \, dy \, dx$

H.O.D.

Department of Mathematics

Veerashaiva College, Ballari.

#### Vv SANGHA'S

#### VEERASHAIVA COLLEGE

#### DEPARTMENT OF MATHEMATICS

#### SUB:-TRIGNOMETRY AND TOPOLOGICAL SPACES

B. Sc 6th SEMESTER: FIRST INTERNAL

TIME: 1 HOUR

**TOTAL MARKS=30** 

ADAPTEE 801-10/10/21/21/2020

#### 1) Answer any FIVE of the following

[5\*6=30]

- 1) Expand  $\cos 8\theta$  in terms of powers of  $\sin \theta$  and  $\cos \theta$
- 2) Separate into real and imaginary parts of following
  - a) Sin(x+iy)
- b) sin(x+iy)
- c) Cosh(x+iy)
- 3) If sin(A+iB) = x+iy, Prove that

$$i) \frac{x^2}{\cosh B^2} + \frac{y^2}{\sinh B^2} = 1$$

- ii)  $x^2 \operatorname{Cosec}^2 A y^2 \operatorname{Sec}^2 A = 1$
- 4) Show that :  $i \log \frac{(x-i)}{(x+i)} = \pi 2 \tan^{-1} x$
- 5) Find the Principle and General value of

a)
$$\log_e i^i$$

$$b)\log(-i)$$

- 6) Prove that the following
  - i)  $\sinh(x y) = \sinh x \cosh y \cosh x \sinh y$

ii) 
$$sinh(2x) = \frac{2 \tanh x}{1 - \tanh x^2}$$

7) Show that

$$\frac{\cos 7\theta}{\cos \theta} = 64 \cos \theta^6 - 112 \cos \theta^4 + 56 \cos \theta^2 - 7$$

H.O.D.

Department of Mathematics
Veerashaiva College, Ballari.



### VEERASHAIVA COLLEGE

Second Internal Assesment - 2022-23 Subject: Mathematics (paper-1.1)

Time: - 1 hour

Max marks = 20

<u>Class</u>: B.sc-1st semester

I) Answer any Four of the following [4X5=B0]

1) Solve lim xen-109(1+x) by L-Hospital nule.

If  $K = \lim_{\chi \to 0} \frac{Srnh\chi - \chi}{Sin\lambda - \chi \cos \chi}$  Show that  $K = \frac{1}{2}$ 

3) Find the Pedal Equation (P-8) of the curve  $\delta = a(1-\cos 0)$ 

4) Find ds too the curve x=a (cost+tsint)
y=a (sint-tcost)

5) show that Padius of Eurvature  $P = \frac{(1 + y_1^2)^{3/2}}{y_2}$ 

6) Derive the devievative of an Arc in contessan form with respect to x'.

Department of Mathematics Veerashaiva College, Ballari.

#### Veerashaiva college, Department of BIOTECHNOLOGY, Ballari B.Sc I sem (NEP) 2022-23

## B.Sc I sem (NEP) 2022-23 DSC1:21BSC1C1BTL: Cell Biology & Genetics 1st Internal Assessment Question paper

Tin	ne:1 Hour ne: swer the following	Max Marks:20 Date: 3-1 2022
1,	what is genetics	(5×1=5)
2.	Define gene	
3.	Define allele	
4.	Backcross	
5.	Define Epistasis	
Wri	te abrief note on any one of the following	Total Company of the
6.	Explain the law of segregation	(1×5=5)
7.	Explain the complementary gene	
Wri	te explanatory notes on any one of the following	25
8.	Explain the sex linked inheritance in haemophilia	(1×10=10)
9.	Explain the cytolpasmic inheritance	

## V. V. Sangha's Veerashaiva college, Department of BIOTECHNOLOGY, Ballari

B.Sc I sem (NEP) 2022-23

DSC1:21BSC1C1BTL: Cell Biology & Genetics

2<sup>nd</sup> Internal Assessment Question paper

1 111	ie:1 Hour	7000000 1000000 100000000
Time:		Max Marks:20
Answer the following		Date: 3. 1. 2023
1.	Cytology	(5×1=5)
2.	Vacuoles	
3.	Cisternae	
4.	Sand witch model	
5.	Lysosomes	
6.	Linkage	
Wri	te abrief note on any one of the following	<u>@#800</u>
7.	Differentiate between prokaryotes and eukayor	(1×5=5)
8.	Brief note on Fluid mosaic model with neat lab	elled diagram
Wri	te explanatory notes on any one of the following	950 83 ( 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1
9.	Draw and explain mitochondrial and their func-	ion (1×10=10)
10.	Explain the coupling and repulsion hypothesis.	NATION AND ADDRESS OF THE PARTY

#### Veerashaiva college, Department of BIOTECHNOLOGY, Ballari B.Sc III sem (NEP) 2022-23

DSC:21BSC3C3BTL: Biomolecul	les 1 <sup>st</sup> IA
Time:1 Hour	Max Marks:20
Time: 9.00-10.00AM	Date: 25. 1. 2023
Answer the following	(5×1=5)
<ol> <li>Haworth structure of β-D Fructose.</li> </ol>	
<ol><li>Elaborate D &amp; L configuration.</li></ol>	
<ol><li>Define Mutarotation.</li></ol>	
<ol> <li>Homopolysaccides.</li> </ol>	
<ol><li>Activation energy.</li></ol>	
<ol><li>Expand FMN &amp; FAD.</li></ol>	
Write a brief note on any one of the following	(1×5=5)
10. Explain the properties of Carbohydrates.	[DI N. J
11. Write a note on enzyme inhibition and types.	
Write explanatory notes on any one of the following	(1×10=10)
<ol><li>Explain the metabolism of Krebs's Cycle with neat labeled.</li></ol>	(1~10-10)
8. Derive the MM equation	
V. V. Sangha's	
Veerashaiva college, Department of BIOTECH	NOLOGY, Ballari
B.Sc III sem (NEP) 2022-23	१८२८ में शिक्ष के प्राप्त के प्राप्त के प्राप्त के समित के लिए के स्वाप्त के स्वाप्त के स्वाप्त के स्वाप्त के 
DSC: 21BSC3C3BTL: Biomolecules	-2 <sup>nd</sup> IA
Date:25.1.2023	Time: 9.40-10.40AM
Max Marks:20	
Answer the following	(5×1=5)
1. Define Transamination	S = =2 ,
2. Pk value	
<ol><li>Conjugated proteins</li></ol>	
<ol> <li>Name the deficiency of vitamin B and D</li> </ol>	
<ol><li>Scientific name of vitamin B5</li></ol>	
6. Symptoms of vitamin B3	
Write a brief note on any one of the following	(1×5=5)
7. Draw the structures of 20 amino acids with three letter symbols	(2.3-3)
8. Explain the structural organization of secondary protein	
33/-14	

 $(1 \times 10 = 10)$ 

Write explanatory notes on any one of the following

10. Write a brief note on Fat soluble vitamins.

9. Explain the steps of urea cycle with neat labelled daiagram

#### Veerashaiva college, Department of BIOTECHNOLOGY, Ballari B.Sc V sem (CBCS) 2022-23

#### P:Bt -5.1: Immunology 1st IA

Time:1 Hour	Max Marks:20
Time: 9.00-10.00AM	Date: 2. 1. 2023
Answer the following	(5×1=5)
Define Inflammation.	NORMAL COLUMN
2. What is Tetanus Toxid.	
<ol><li>What are Antigen presenting cells(APC)?</li></ol>	
4. Define Epitope.	
<ol><li>Edward Jenner.</li></ol>	
6. Which glands are absent in Soles of the feet.	
Write abrief note on any one of the following	(1×5=5)
12. Write a note on antigens with their types?	NT 2 26
13. Explain the cells involved in immune system	
Write explanatory notes on any one of the following	(1×10=10)
9. Define vaccine. Write a detailed note on Vaccination with Table	(7 /
10. Explain the Innate Immunity	

#### V. V. Sangha's Veerashaiva college, Department of BIOTECHNOLOGY, Ballari B.Sc V sem (CBCS) 2022-23 P:Bt -5.2: Recombinant DNA Technology 1<sup>st</sup> IA

Tim	e:1 Hour	Max Marks:20
Tim	e:	Date: 3. 1. 2023
Ans	swer the following	$(5 \times 1 = 5)$
1.	Define palindromic sequence	SE = #/
2.	Shuttle vector	
3.	Expand YRPs	
4.	Cloning vector	
5.	Sticky ends	
6.	Enzymes involved in gene cloning	
Wri	te abrief note on any one of the following	(1×5=5)
7.	Describe the method of DNA isolation by Shot gun method	(1 0 0)
8.	Write the principles of Recombinant DNA technology.	
Wri	te explanatory notes on any one of the following	$(1 \times 10 = 10)$
9.	explain briefly about the classification and the types of Restriction endonucleases	s. (1 10 10)
iv.	Write in detail about vectors	

#### Veerashaiva college, Department of BIOTECHNOLOGY, Ballari B.Sc V sem (CBCS) 2022-23

P:Bt -5.1: Immunology 2<sup>nd</sup> IA

-
Max Marks:20
Date: 3. 1. 2023
(5×1=5)
(5-2-3)
(1×5=5)
(2 5 5)
(1×10=10)
(= 10 10)

2 Explain the types of immunoglobins.

## V. V. Sangha's Veerashaiva college, Department of BIOTECHNOLOGY, Ballari B.Sc V sem (CBCS) 2022-23

P:Bt -5.2: Recombinant DNA Technology 2nd IA

	The state of the s	
Tim	e:1 Hour	Max Marks:20
Tim	e: 9.00-10.00AM	Date: 3. 1. 2023
Ans	wer the following	(5×1=5)
1.	Define hybridization	S 3 5/
2.	Define DNA foot printing.	
3.	Define Chromosome walking.	
4.	What radioactive phosphate is used in maxima-gilbert sequencing.	
5.	Which enzyme is used in the sequencing process.	
6.	What are clone cells.	
Wri	te abrief note on any one of the following	(1×5=5)
7.	Explain the mechanism of DNA ligase.	C 7
8.	Explain the method of genomic library construction.	
Wri	te explanatory notes on any one of the following	(1×10=10)
9.	What is Maxima-gilbert method explain in detail.	XT.SST.RS (T.Y)
10.	Write Brief note on screening techniques.	

### Veerashaiva college, Department of BIOTECHNOLOGY, Ballari B.Sc II sem (NEP) 2022-23

### DSC 2: MICROBIOLOGICAL METHODS -1st IA

Ti	ne:1 Hour	Date:	Max Marks: 20
Ans	wer the following		(5×1=5)
1.	Define Centrifugation		(NT/15/07= 17:4)
2.	What is Microscopy		
3.	Define Spectroscopy		
4.	What is Numerical aperture		
5.	Who is the father of Microbiology		
Wri	te abrief note on any one of the following	<u> </u>	(1×5=5)
1.	Write down the principle & application o	f the centrifugation	NE
2.	Differentiate between SEM and TEM		
Wri	te explanatory notes on any one of the fo	llowing	$(1 \times 10 = 10)$
1.	Write a note on Dark field Microscope w		Name of the State
2.	Elaborate the principle & applications of	phase contrast microscope	

### V. V. Sangha's

### Veerashaiva college, Department of BIOTECHNOLOGY, Ballari

### B.Sc II sem (NEP) 2022-23

### DSC 2: MICROBIOLOGICAL METHODS -2nd IA

Ti	me:1 Hour	Date: 12-08-2023	Max Marks:20
An <sub>5</sub>	wer the following		(5×1=5)
1,	Define Stain		(0 2 2)
2.	What is Enriched media		
3.	Define Culture Media		
4.	What is Antiseptic		
5.	Name the Mordant in Gram staining		
Wri	te abrief note on any one of the following		(1×5=5)
1.	Write the principle and applications of Mois	st heat sterilization	(1 0 0)
2.	Differentiate between Gram positive and Gr		
Wr	te explanatory notes on any one of the follo		$(1\times10=10)$
1.	Describe about the Serial dilution method a		(1 10 10)
2.	Write a note on special media based on cher		

### Veerashaiva college, Department of BIOTECHNOLOGY, Ballari B.Sc IV sem (NEP) 2022-23

DSC: 21BSC3C3BTL:Molecular Biology 1st I.A

Date:14.7.2023 Time: 9.40-10.40AM Max Marks: 20 Answer the following  $(5 \times 1 = 5)$ 1. Define Prinow Box 2. Define Poly A tail 3. What is splicing 4. Define core enzyme 5. What is enhancer Write a brief note on any one of the following  $(1 \times 5 = 5)$ 1. Explain the types of RNA polymerase in RNA synthesis 2. Wrte a note on central Dogma of molecular Biology Write explanatory notes on any one of the following  $(1 \times 10 = 10)$ 1. Explain detail note on transcription in Eukaryotes 2. Give a note on Experimental proof of DNA as genetic material

### V. V. Sangha's

### Veerashaiva college, Department of BIOTECHNOLOGY, Ballari B.Sc IV sem (NEP) 2022-23

DSC: 21BSC3C3BTL:Molecular Biology 2nd I.A

Date:07.8.2023 Time: 9.40-10.40AM Max Marks:20 Answer the following  $(5 \times 1 = 5)$ 1. Define Translocation 2. Define Genetic code 3. What is Primosome 4. Define Repliosome 5. What is Replication complex Write a brief note on any three of the following  $(1 \times 5 = 5)$ 1. Write a neat diagram explain the DNA replication in Eukaryotes 2. Define Genetic code & Explain its properties of Genetic code Write explanatory notes on any one of the following  $(1 \times 10 = 10)$ 1. Explain detail note on translation in Eukaryotes 2. Explain the theta models of DNA replication & rolling circle model

### Veerashaiva college, Department of BIOTECHNOLOGY, Ballari B.Sc VI sem (CBCS) 2022-23

P:Bt -6.1: Environmental & Agricultural Biotechnology 1st IA

-		Agricultural biolechnology 1st	LA
Tim	e:1 Hour	Date: 17-07-2023	Max Marks:20
Ans	swer the following		(5×1=5)
1.	Define Plant breeding		(51 5)
2.	What are microbial pesticides		
3.	Give an example for herbal pestici	ides	
4.	Define Hybridization		
5.	Define Emasculation		
6.	Write the application of agriculture	e biotechnology	
Wri	te abrief note on any one of the	following	(1×5-5)
1.	Explain briefly about bacillus thus	ringenesis of biopesticides	(1×5=5)
2.	Write a note on Micropropagation		
Wri	te explanatory notes on any on		(1×10-10)
1.	explain the techniques of plant bre		(1×10=10)
2.	Write about the techniques of cryc		

### V. V. Sangha's

### Veerashaiva college, Department of BIOTECHNOLOGY, Ballari B.Sc VI sem (CBCS) 2022-23

P:Bt -6.2: Plant and Animal cell culture 1st IA

Time: 1 Hour	Date: 17 -07-2023	Max Marks:20
Answer the following	Collins and the collins of the Colli	(5×1=5)
Define invitro culture		(3/1-3)
<ol><li>What is micropropagation</li></ol>		
<ol><li>Define organogenesis</li></ol>		
<ol><li>What is PTC</li></ol>	8	
<ol><li>Who is the father of PTC</li></ol>		
<ol><li>Write the use of growth regulators</li></ol>		
Write a brief note on any one of	the following	(1×5=5)
1. Write a note on History of Plant tiss	sue culture	(1/3-3)
2. Write the applications of Microprop		
Write explanatory notes on any one	of the following	(1×10=10)
1. Explain the plant growth regulators		(1~10-10)
2. Explain the composition of M.S me	dia	

### Veerashaiva college, Department of BIOTECHNOLOGY, Ballari B.Sc VI sem (CBCS) 2022-23

P:Bt-6.1: Environmental & Agricultural Biotechnology 2<sup>nd</sup> IA

Time	e:1 Hour	Date: 09-08-2023	Max Marks:20
Ans	wer the following		(5×1=5)
1.	Define Biofertilizers		
2.	Give an examples for Symbiotic Nitrogen Fix	ation	
3.	What is Plant Growth Regulators		
4.	Write the Synthetic & Natural hormone for A	uxins	
5.	Define Free living nitrogen Fixation		
Wri	ite a brief note on any one of the follo	wing	(1×5=5)
1.	Explain in detail the Mechanism of Biological	Nitrogen fixation process	
2.	Write a note on Biofertilizers with Examples		
Wri	te explanatory notes on any one of the fo	llowing	(1×10=10)
1.	Briefly explain Plant growth regulators in Ag	riculture	
2.	Write a note on NIF, NOD & HUP genes inve	olved in Nitrogen Fixing Mechanism	

### V. V. Sangha's

### Veerashaiva college, Department of BIOTECHNOLOGY, Ballari B.Sc VI sem (CBCS) 2022-23

P:Bt -6.2: Plant and Animal cell culture 2nd IA

Time:1 Hour	Date: 10 -08-2023	Max Marks:20
Answer the following		(5×1=5)
1. Define suspension culture		125 8
2. What is clonal propagation		
3. Define Totipotency		
<ol><li>What is surface sterilization</li></ol>		
5. What is Callus		
Write a brief note on any one of the	e following	(1×5=5)
1.Describe the methods of Callus develo	pment	
2. Write about the process of embryo cu	lture	
Write explanatory notes on any one of	the following	(1×10=10)
1. Give an account of Suspension culture		
2. Explain the process of Micropropogat	tion of plants by Auxillary bud	



# V.V.SANGHA'S VEERASHAIVA COLLEGE DEPARTMENT OF COMMERCE AND MANAGEMENT B COM 4<sup>TH</sup> SEM

### 1<sup>ST</sup> INTERNAL TEST - 2019-20 SUB:-CORPORATE ACCOUNTING-II

TIME:-30 MIN

MARKS=10 MARKS

- 1. What is bank? Name the schedules of profit and loss account of a bank?
- 2. Write the Pro-form of balance sheet of a bank.
- 3. Prepare profit and loss account and calculate statutory reserves from the following information of a bank on 31-03-2019:-

Particulars	Rs.	
Interest earned	10,00,000/-	
Other income	2,50,000/-	
Interest Expended	4,50,000/-	
Operating expenses	3,00,000/-	
Profit and loss a/c	2,50,000/-	
Rebate on bill discounted	25,000/-	
Provision for doubtful discounted	75,000/-	
Provision for taxation	1,50,000/-	



# V.V.SANGHA'S VEERASHAIVA COLLEGE DEPARTMENT OF COMMERCE AND MANAGEMENT B COM 4<sup>TH</sup> SEM

1ST INTERNAL TEST - 2019-20 SUB:-INCOME TAX-III

TIME:-30 MIN

MARKS=10 MARKS

### ANSWER ANY TWO FROM THE FOLLOWING QUESTIONS:-

1. What is book profit. How do you calculate book profit.

2. Who is working partner and non-working partner.

3. X.Y and Z are equal partner in a firm with X being non-working partner.

The P&L a/c for the year ended 31-03-2019 is as follows:-

Rent	60,000/-	Gross Profit	12,00,000/-
Office expenses	75,000/-	Discounte	30000/-
Salaries	3,00,000/-	Bad Debts Recovered	6000/-
Sales Tax	30,000/-	Bank Interest	9000/-
Advertisement	45,000/-		
Charity & Donations	15,000/-		
Bad Debts	45,000/-		
Bad Debts Reserve	30000/-		
Sundry expense	60,000/-		
Depreciation	75,000/-		
Interest on capital:- X Y Z	1,50,000/- 90,000/- 60,000/-		
Commission:- X Y Z	45,000/- 30,000/- 15,000/-		
Net Profit	1,35,000/- 12,60,000/-		12,60,000/-

### Other Information:-

- 1. Salaries include partner salaries Y Rs. 45000/- and Z Rs. 30000/-.
- 2. Bad Debts admissible by income tax department Rs. 37,500/-.
- 3. Furniture purchase by X for personal use Rs. 30,000/- has been debited to sundry expenses.
- 4. Donation include donation to local school Rs. 10,500/- to a clib Rs. 3,000/- and trade association Rs. 1,500/-.
- 5. Capital account of partner are the beginning of previous year were as follows:-

X Rs. 6,00,000/-

Y Rs. 3,60,000/-

Z Rs. 2,40,000/-

Compute the total income of firm for the AY 2019-20.



# V. V. SANGHA'S Veerashaiva College,Ballari Dept of Commerce & Management B.B.A 1stSemester I InternalTest2019-20 Subject:Quantitative Techniques-I

Time:1 hour

Max Marks:15

I. Answer any 3 of the following:

3\*5=15

1) Define statistics. Briefly the scope and importance of statitics.

2) Prepare a bivariate frequency distribution table from the following information Age of bridegroom:25,28,26,30,32,40,22,26,29,31,35,38,37,28,22,29,18,30,38,25. Age of bride:23,26,22,25,28,35,19,20,18,27,30,35,32,26,18,25,18,25,36,20.

3) In a sample study of coffee habitants in two towns,the following information was received.

Town A: 40% are males out of total 45% and male non coffee drinkers are 20% Town B: males were 55% non-coffee drinkers were 15% prepare tabulation.

4) Prepare a suitable bar diagram for the following data.

Items.	Family A	Family B	Family C
food	500	1400	2000
House rent	300	700	1000
fuel	150	200	200
others	750	1350	2000
Total	1700	3650	5200



# V. V. SANGHA'S Veerashaiva College,Ballari Dept of Commerce & Management B.B.A1<sup>st</sup>Semester I InternalTest 2019-20 Subject:Accounting for Managers

Time:1 hour

Max Marks:15

### I. Answer any 3 of the following:

3\*5=15

- 1) Define accounting. Explain various of accounts and its rules?
- 2) Who are the users of Accounting information? Explain.
- 3) Explain in brief accounting principles?
- 4) Distinguish between financial accounting and cost accounting?
- 5) Frame accounting equation for the following:

Commenced business with capital Rs:100000

Borrowed loan from bank Rs:50000

Purchased fixed assets for cash Rs:10000



### V. V. SANGHA'S Veerashaiva College,Ballari **Dept of Commerce & Management** B.B.A1stSemester I InternalTest 2019-20

Subject:Principles and practice of management

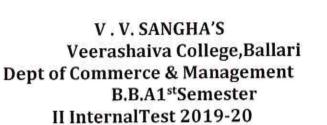
Time:1 hour

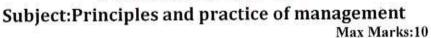
Max Marks:15

### I.Answer any 3 of the following:

3\*5=15

- 1) Define management. Briefly explain levels of management?
- 2) Write the contribution of henry fayol towards management?
- 3) What are the steps in planning?4) Discuss the techniques of forecasting?





I. Answer any 2 of the following:

Time:1 hour

5\*2=10

- 1) Write the steps in rational decision making?
- 2) What are the types of organizations?
- 3) Write the functions of staffing?



### Veerashaiva College,Ballari Dept of Commerce & Management

### B.B.A1stSemester

## II InternalTest 2019-20

Subject:Quantitative techniques

Time:1 hour

Max Marks:10

### I. Answer any 2 of the following:

5\*2=10

1. Calculate mean and median for the following:

marks	No of students
10-20	10
20-30	20
30-40	5
40-50	10
50-60	5

2. Explain the techniques of central tendency?

3. Represent the following frequency distribution by histogram. Get the frequency polygon from histogram

IQ	60-80	80-90	90-95	95-100	100-105	105-110	110-120	120-140
No of children	10	15	10	15	12	05	05	02



# V. V. SANGHA'S Veerashaiva College,Ballari Dept of Commerce & Management B.B.A1stSemester II InternalTest 2019-20 Subject:Quantitative techniques

Time:1 hour

Max Marks:10

I. Answer any one of the following:

1\*10=10

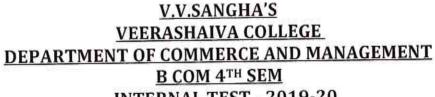
1. (A) What is compound journal entry? Explain the differences between JOURNAL & LEDGER

(B) Prepare the ledger account of Mr.mohan from the following transactions:

2014 AUG	RS.	
bought goods from mohan	6000	
7 paid him cash on account	3000	
12 returned goods to him	200	
18 sold goods to him	4000	
22 received from him cash	2400	
25 returned goods to him	400	
28 purchased goods from him	2000	

2. Journalise the following transactions post them to ledger accounts and cast the trail balance:

2019- april		Rs
1	Commnenced business with the following	
	Cash	20000
	Goods	5000
	Building	15000
2	Deposited into state bank of India	12000
3	Bought goods from ravi Traders	3000
3 4	Sold Goods to Vinayaka	2000
6 7 9	Returned goods to Ravi Traders	200
7	Vinayaka Returned us Goods	100
9	Purchased office furniture	500
12	Paid Ravi Traders by check	1800
13	Received check from Vinayaka and paid into Bank	1200
15	Paid for Repairs	



INTERNAL TEST - 2019-20
SUB:-CUSTOMS DUTIES

TIME:-30 MIN

MARKS=10 MARKS

- 1. Define the term customs and explain the role of customs in international trade
- 2.Briefly explain the power of custom authorities?
- 3. Give the meaning for the following:
  - A. Asses-sable value
  - **B.Foreign Vessel**
  - C.Import manifest
  - D. Letter of credit
  - E. Bill of lading.

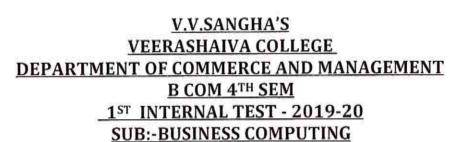


# V.V.SANGHA'S VEERASHAIVA COLLEGE DEPARTMENT OF COMMERCE AND MANAGEMENT B COM 4<sup>TH</sup> SEM

INTERNAL TEST - 2019-20

SUB:-COMPANY LAW AND SECRETARIAL PRACTICE
TIME:-30 MIN MARKS=10 MARKS

- 1.Define the term secretary, Explain the qualification to become secretary?
- 2. Explain the procedure of appointment of appointment of company secretary.
- 3. What are the good qualities required to became a good secretary.



TIME:-30 MIN

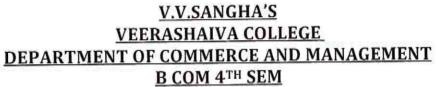
MARKS=10 MARKS

### ANSWER ANY TWO FROM THE FOLLOWING QUESTIONS:-

1. Explain the basic structure of HTML.

2. Explain the different heading tags in HTML.

3. What is list? Explain the difference types of list.



1<sup>ST</sup> INTERNAL TEST - 2019-20 SUB:-COMPUTER APPLICATIONS

TIME:-30 MIN

MARKS=10 MARKS

### ANSWER ANY TWO FROM THE FOLLOWING QUESTIONS:-

1. Explain the basic structure of C program.

2. Write a C program to find the sum of two numbers.

3. What is constant and explain it types.



# V.V.SANGHA'S VEERASHAIVA COLLEGE DEPARTMENT OF COMMERCE AND MANAGEMENT B COM 4<sup>TH</sup> SEM

### 1ST INTERNAL TEST - 2019-20 SUB:-QUANTATIVE TECHNIQUE-II

TIME:-30 MIN

MARKS=10 MARKS

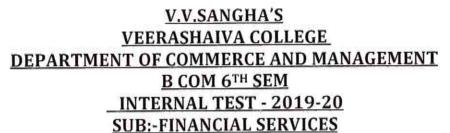
### ANSWER ANY TWO FROM THE FOLLOWING QUESTIONS:-

- 1. Explain positive and negative correlation with examples.
- 2. Calculate Karl pearson's Co-efficient from the following:-

X	10	20	30	40	50
Y	20	40	60	80	100

3. Calculate the Spear-man's rank correlation from the following data:-

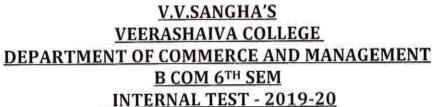
Marks in Accounts	Marks in Statistics
60	65
40	75
85	50
73	93
90	80



TIME:-30 MIN

MARKS=10 MARKS

- 1. Eplain the features of financial service.
- 2. State the development of financial services in India.
- 3. Briefly explains types of lease.



SUB:-MULTIMEDIA

TIME:-30 MIN

MARKS=10 MARKS

- 1. Define Multimedia? Explain the different elements of multimedia.
- 2. Explain the different categories of multimedia.
- 3. Write about scanner and digital camera.



# V.V.SANGHA'S VEERASHAIVA COLLEGE DEPARTMENT OF COMMERCE AND MANAGEMENT B COM 6<sup>TH</sup> SEM

### <u>INTERNAL TEST - 2019-20</u> SUB:-HUMAN RESOUCE MANAGEMENT

TIME:-30 MIN

MARKS=10 MARKS

- 1. Define HRM. Write the features of HRM.
- 2. Briefly explain the scope of HRM.
- 3. Explain the functions of HRM.



# V.V.SANGHA'S VEERASHAIVA COLLEGE DEPARTMENT OF COMMERCE AND MANAGEMENT B COM 6<sup>TH</sup> SEM

### INTERNAL TEST - 2019-20 SUB:-INCOME TAX-II

TIME:-30 MIN

MARKS=10 MARKS

### ANSWER ANY TWO FROM THE FOLLOWING QUESTIONS:-

1. What is capital gain? What is the difference between LTCG and STCG?

2. From the following information compute the taxable capital gains for the assessment year 2019-2020.

Particular	House	
Date of purchase	01-06-1997	
Cost of acquisition	5,70,,000/-	
Cost of improvement in 2000	25000/-	
Fair Market Value as on 01-04-2001	5,25,000/-	
Cost of improvement in 2004-05	1.55.940/-	
Sale proceeds of property in 2018-19	21,14,400/-	

#### Cost of inflation index

For 2001-02:100 2004-05:1132018-19:280

- 3. Kabir Bedi provides the following details relating to the PY 2018-19
  - A. Rs. 10000/- 6% Government Paper
  - B. Rs. 20000/- 8% Securities of Port Trust Of Kandla.
  - C. Rs. 20000/- 9% Tax Free Debentures of X ltd (listed).
  - D. Rs. 4500/- Int received on tax free securities (unlisted) of Z ltd.
  - E. Rs. 3600/- Int received on securities of UP Electricity Board
  - F. Bank charged 100/-Rs as collection charges

Compute the Income From Other Sources for A/Y 2019-20.

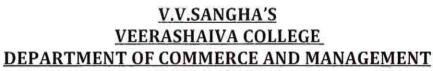
# V.V.SANGHA'S <u>VEERASHAIVA COLLEGE</u> <u>DEPARTMENT OF COMMERCE AND MANAGEMENT</u> <u>B COM 6<sup>TH</sup> SEM</u>

### <u>INTERNAL TEST - 2019-20</u> SUB:-INTERNET AND E-GOVERNANCE

TIME:-30 MIN

MARKS=10 MARKS

- 1. Write a short on LAN and WAN.
- 2. Explain world wide web(WWW).
- 3. Define E-Mail. Mention the advantages and disadvantages of E-Mail.



### B COM 6<sup>TH</sup> SEM INTERNAL TEST - 2019-20

## SUB:-COST ACCOUNTING-II

TIME:-30 MIN

MARKS=10 MARKS

### ANSWER ANY TWO FROM THE FOLLOWING QUESTIONS:-

1. Draw the details from of cost sheet.

2. From the following calculate the quotation price.

A. Raw material consumed

Rs. 17000/-

B. Direct wages paid

Rs. 20000/-

C. Factory overhead

Rs. 10000/-

D. Office overhead

RS,9400/-

The quotation price should include a profit of 20% on selling price

3. A company wants o supply 100 units of an article. Ascertain the profit the company would make from the following data.

A. Meterial

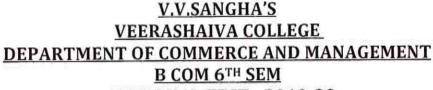
Rs. 25000/-

**B.** Wages

Rs. 30000/-

- C. Works overhead 40% on wages
- D. Administrative overhead 25% on work cost
- E. Expected sales price

Rs. 1,00,000/-



### <u>INTERNAL TEST - 2019-20</u> SUB:-MANAGEMENT ACCOUNTING

TIME:-30 MIN

MARKS=10 MARKS

### ANSWER ANY TWO FROM THE FOLLOWING QUESTIONS:-

1. Define Management accounting? Explain its functions.

2. Difference between management accounting and cost accounting.

3. Briefly explain the various classification of financial analysis.

4. From the following data prepare common size income indicating items

wise percentage to sales:-

Particular	2018	2019
Net sales	15,00,000/-	20,00,000/-
Cost of sales	10,00,000/-	12,00,000/-
Other expenses	1,00,000/-	2,00,000/-
Other incomes	20,000/-	5,000/-
Income Tax	80,000/-	1,20,000/-



# V.V. SANGHA'S Veerashaiva College,Ballari Dept of Commerce & Management B.B.A 3<sup>rd</sup> Semester Internal Test 2018-19 Subject: Marketing Management

Time:1 hour

MAX MARKS:10

### SECTION - A: ANSWER ANY TWO OF THE FOLLOWING

2\*5=10

- 1. What are the components of product portfolio
- 2. Briefly explain the various stages of PLC
- 3. Elucidate the various classification of products
- 4. What are the objectives of pricing
- 5. Explain the functions of channels of distribution



# V.V. SANGHA'S Veerashaiva College,Ballari Dept of Commerce & Management B.B.A 3<sup>rd</sup> Semester Internal Test 2018-19 Subject: Human Resource Management

Time:1 hour

MAX MARKS:15

### ANSWER ANY THREE OF THE FOLLOWING

3\*5=15

- 1. Define HRM. Explain the functions of HRM
- 2. Briefly explain HRM model
- 3. Define HRP. Write the process of HRP
- 4. Write a short note on job analysis

## Veerashaiva First Grade College, Bellari First internal Assessment 2018

Subject :- Political Theory

Class:- BA. 2nd semester

Time:-1 Hour

Marks:-20

Answer any two of the following questions.

 $2 \times 10 = 20$ 

- 1. Discuss the characteristics of classical Political theory. ಸಾಂಪ್ರದಾಯಿಕ ರಾಜಕೀಯ ಸಿದ್ಧಾಂತದ ಲಕ್ಷಣಗಳನ್ನು ಚರ್ಚಿಸಿರಿ.
- 2. Explain the principles of socialism. ಸಮಾಜವಾದದ ತತ್ವಗಳನ್ನು ವಿವರಿಸಿರಿ.
- 3. Explain the nature and scope of Political theory. ರಾಜಕೀಯ ಸಿದ್ಧಾಂತದ ಸ್ವರೂಪ ಮತ್ತು ವ್ಯಾಪ್ತಿಯನ್ನು ವಿವರಿಸಿರಿ.

### Veerashaiva First Grade College, Bellari Second internal Assessment 2018

Subject :- Political Theory

Class:- BA. 2nd semester

Time: 1 Hour

Marks: 20

Answer any two of the following questions.

 $2 \times 10 = 20$ 

- 1. Critically discuss the principles of liberalism. ಉದ್ದಾರವಾದದ ತತ್ವಗಳನ್ನು ವಿಮರ್ಶಾತ್ಮಕವಾಗಿ ಚರ್ಚಿಸಿರಿ.
- 2. Discuss the theory of surplus value. ಅಧಿಕ ಮೌಲ್ಯ ಸಿದ್ಧಾಂತ ಕುರಿತು ಚರ್ಚಿಸಿರಿ.
- 3. Discuss the merits and demerits of democracy. ಪ್ರಜಾಪ್ರಭುತ್ವದ ಗುಣದೋಷಗಳನ್ನು ಚರ್ಚಿಸಿರಿ.

## Veerashaiva First Grade College, Bellari First internal Assessment 2019

Subject :- Political Theory

Class:- BA. 2nd semester

Time: 1 Hour

Marks: - 20

I. Answer any two of the following questions.

 $2 \times 10 = 20$ 

Explain the nature and scope of Political theory.
 ರಾಜಕೀಯ ಸಿದ್ಧಾಂತದ ಸ್ವರೂಪ ಮತ್ತು ವ್ಯಾಪ್ತಿಯನ್ನು ವಿವರಿಸಿರಿ.

2. Explain the different types of authority. ಶಾಸನಬದ್ಧ ಅಧಿಕಾರದ ವಿಭಿನ್ನ ಪ್ರಕಾರಗಳನ್ನು ಚರ್ಚಿಸಿರಿ.

3. Explain the features of behaviouralism. ವರ್ತನಾವಾದದ ಲಕ್ಷಣಗಳನ್ನು ವಿವರಿಸಿರಿ.

## Veerashaiva First Grade College, Bellari Second internal Assessment 2019

Subject :- Political Theory

Class:- BA. 2nd semester

Time:-1 Hour

Marks :- 20

I. Answer any two of the following questions.

 $2 \times 10 = 20$ 

1. Discuss the kari marxian socialism. ಕಾರ್ಲ್ ಮಾರ್ಕ್ಸ್ ರವರ ಸಮಾಜವಾದವನ್ನು ಕುರಿತು ಚರ್ಚಿಸಿರಿ.

2. Discuss the challenges of Indian democracy. ಭಾರತದಲ್ಲಿ ಪ್ರಜಾಪ್ರಭುತ್ವವು ಎದುರಿಸುತ್ತಿರುವ ಸವಾಲುಗಳನ್ನು ಕುರಿತು ಚರ್ಚಿಸಿರಿ.

3. Critically discuss the principles of liberalism. ಉದ್ದಾರವಾಗದ ತತ್ವಗಳನ್ನು ವಿಮರ್ಶಾತ್ಮಕವಾಗಿ ಚರ್ಚಿಸಿರಿ.



# Veerashaiva degree college, BALLARI Department of PG studies in Zoology

Paper-3:DSC7:Ethology and Chronobiology

II - SEM

1stInternal assessment examination

Date: 31.01.22Date: 14.06.22

Sub. Code: 21ZOO2C7L Time: 1.30 Hour

Maximummarks: 30

I.Answer the following in one or 2 sentences each: 5x1=5

1. Who is the father of animal behavior?

- 2. What is proximate behavior?
- 3. Define orientation.
- 4. What is Altruism?
- 5. Define mimicry.

II.Answer any three of the following in brief:

3x5=15

- 6. Discuss the method for studying animal behavior.
- 7. Explain animal signaling by taking one example.
- 8. Write a note on animal navigation.
- 9. Discuss the animal communication in birds.
- 10. Explain the sexual dimorphism in animals.

111. Answer any one of the following in detail:1x10=10

- 11. Discuss the History of animal behavior.
- 12. Explain the social behavior of bees and wild animals.

Internal Quality Assurance Cell (IQAC). VEERASHAIVA COLLEGE, BELLARY-KARNATAKA.

VEERASHAIVA COLLEGE BALLARI



# Veerashaiva degree college, BALLARI

# Department of PG studies in Zoology

Paper 4-DSC8:Cancer and Radiation Biology
II - SEM

1stInternal assessment examination

Date: 15.06.22

Time: 1.30 Hour

Sub. Code :21ZOO2C8L

Maximummarks: 30

I.Answer the following in one or 2 sentences each:

1x5=05

- 1. Define cancer.
- 2. What is chemical carcinogenesis?
- 3. Name any two properties of cancer.
- 4. Mention any two stages of cancer.
- 5. Write any two causes of cancer.
- II. Answer any three of the following in brief:

3x5=15

- 6. Explain the physical carcinogenesis.
- 7. Discuss a) Immune surveillance b) Immune recognition of tumors.
- 8. Explain the clonal nature of cancer.
- 9. Discuss the role of T regulatory cell in immune invasion.
- 10. Differentiate between tumor specific transplantation antigen and tumor associated transplantation antigens.
- III. Answer any one of the following in detail:

1x10=10

- 11. Discuss in details Etiology of cancer.
- 12. What is the prevalence of cancer in India & World?

Internal Quality Assurance Cell (IQAC).

VEERASHAIVA COLLEGE,

BELLARY-KARNATAKA.

PRINCIPAL VEERASHAIVA COLLEGE



### Veerashaiva degree college, BALLARI Department of PG studies in Zoology

Paper 1 –DSC5: Biology of Chordates

II - SEM

2<sup>nd</sup> Internal assessment examination

Date: 27.07.22 Time: 1.30 Hour

HE HELD AND REPORT OF THE STANDARD TO THE AND AND STANDARD STANDARD PROPERTY.

Maximum marks: 30

### 1. Answer the following in one or 2 sentences each: 5x1=5

- 1. Define Neoteny.
- 2. Name any 2 examples of snake venom?
- 3. What is courtship behavior?
- 4. Mention the different sub classes of mammals.
- Define Branchial and Pulmonary Respiration.

### II.Answer any threeof the followingin brief: 3x5=15

- 6. Explain the differences between Poisonous and Nonpoisonous Snakes of India.
- 7. Explain Avian migration.
- 8. Write a note on origin of birds with evidences.
- 9. Explain the origin & evolution of mammals.

### III.Answer any one of the following in detail:1x10=10

- Explain the structural Peculiarities of Protheria, Metatheria, Eutheria. Write about Aquatic mammals.
- 11. Explain the Integuments of tetrapods with emphasis on epidermal derivatives of glands, scales, horns, nails, hoofs, feathers, hairs.

COORDINATOR,
Internal Quality Assurance Cell (IQAC).
VEERASHAIVA COLLEGE,
BELLARY-MARMAMA.

PRINCIPAL
VEERASHAIVA COLLEGE
BALLARI



Veerashaiva degree college, RALLARI Department of PG studies in Yoology

Paper 2–DSC6: Developmental Biology and Molecular Endocrinology II - SEIM

2<sup>rd</sup>Internal assessment examination

Date: 28.07.22

Time: 1.30 Hour

Marketovio maris; 20

I. Answer the following in one or 2 sentences each: 5x1=5

- 1. Define local hormones.
- 2. What are Pheromones?
- 3. Define Bioassay.
- 4. What are Secondary Messengers?
- 5. What is Pituitary Dwarfism?
- II. Answer any one of the following in brief: 3x5=05
- 6. Explain milk ejection reflex and water balance.
- Explain Addison's disease and Cushing's syndrome.
- 8. Discuss the hormone & homeostasis of sodium.
- 9. Discuss the physiological action of melatonin.
- III. Answer any one of the following in detail: 1x10=10.
  - Explain Structure and Functions of Endocrine glands.
  - 11. Discuss a) Surgical and Hormonal Replacement Therapy.

b) Mechanism of hormone action

Internal Quality Assurance Cell (IQAC). VEERASHAIVA COLLEGE, BELLARY-KARNATAKA.

VEERASHAIVA COLLEGE



## Veerashalva degree college, BALLARI Department of PG studies in Zoology

Paper 3-DSC7: Ethology and Chronobiology II ~ SEM

2<sup>nd</sup> Internal assessment examination

Date: 29.07.22

Time: 1.30 Hour

Maximum marks: 30

I.Answer the following in one or 2 sentences each: 5x1=5

- 1. Define circannual rhythms.
- 2. What is photoperiodism?
- 3. Define chronotherapy.
- 4. Expand a) PRC b)PTC.
- 5. What is Zeitgebers?
- II. Answer any one of the following in brief:

5x1=05

- 6. Explain Biological timing system of a) Ultradian b) circadian.
- 7. Explain Rhythmic characteristics of photic and non-photic Entrainment.
- 8. Discuss about Free running rhythms.
- 9. Explain entrainment & masking in the natural artificial environment.
- III. Answer any one of the following in detail:

1x10=10

- 10. Discuss the Biological clock and human health and diseases.
- 11. Explain a) parametric and non-parametric entrainment
  - b) Phase shift and phase response curve.

COORDINATOR

Internal Quality Assurance Cell (IQAC).
VEERASHAIVA COLLEGE.

BELLARY-KARNATAKA.

PRINCIPAL VEERASHAIVA COLLEGE

BALLARI



### Veerashalva degree college, BALLARI Department of PG studies in Zoology

# Paper 1 - DSC1:Systematics and Biology of Non-Chordates

1stInternal assessment examination

Date: 20.01.22

Time: 1.30 Hour

Maximummarks: 36

I.Answer the following in one or 2 sentences each: 5x1=5

- 1. Define Alpha taxonomy.
- 2. What is cytotaxonomy?
- 3. What is nominalist species concept?
- 4. Name the two respiratory pigments.
- 5. What are labial palps?

### III. Answer any three of the following in brief: 3x5=15

- 6. Discuss a) Molecular taxonomy b) Dendrogram c) Cladistics d) Chemotaxonomy e) Gamma taxonomy.
- Explain a) Typological species concept b) Biological species concept c) Recognition Species concept e) Aberrant species concept
- 8. Write the general characteristics and classification of phylum Annelida,
- 9. Write a brief note on respiratory organs of Arthropoda.
- 10. Explain filter feeding in cheatopterus with a neat labelled diagram.

### IV. Answer any one of the following in detail:1x10=10

- 11. Write the general characteristics and out line classification of phylum chordates & Discuss the characteristics of super class Pisces.
- 12. Explain in detail about the mechanism of excretion in Pheretima,

Internal Quality Assurance Cell (IQAC)

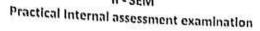
VEERASHAIVA COLLEGE,

EELLARY-KARNATAKA.

PRINCIPAL VEERASHAIVA COLLEGE BALLARI

### Veera Shaiva degree college, BALLARI Department of PG studies in Zoology

### Paper 1 -DSC5:Biology of Chordates II - SEM



Date: 27.07.22 Time: 2 Hour

Maximummarks: 30

Perform the Major experiment 'A': 1.

Perform the Minor experiment 'B': 11.

Comment on 'C': 111.

Viva Voce: N'.

Record: ٧.

Veera Shaiva degree college, BALLARI Department of PG studies in Zoology Paper 2-DSC6:Developmental Biology and Molecular Endocrinology II - SEM

PracticalInternal assessment examination

Date: 28.07.22

Time: 1.30 Hour

Maximummarks: 20

- 1. Perform the Major experiment 'A':
- 11. Perform the Minor experiment 'B':
- Comment on 'C': III.
- IV. Viva Voce:

٧. Record:

Veerashaiva degree college, BALLARI

Department of PG studies in Zoology

Paper 3-DSC7: Ethology and Chronobiology

II - SEM

Practical Internal assessment examination

Date: 29.07.22

Time: 1.30 Hour

Maximummarks: 30

- 1. Perform the Major experiment 'A':
- 11. Perform the Minor experiment 'B':
- III. Comment on 'C':

Record:

IV. Viva Voce:

٧.

VEERASHAIVA COLLEGE

BALLARI

Internal Quality Assurance Cell (IQAC). VEERASHAKVA COLLEGE.

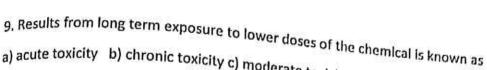
DELLARY-KARIDATALY



- 17. Which of the following statements is correct for livens test
- a) It is used to assess the quality of variance between two samples
- b) It is used to assess the quality of variance between the same sample of person
- c) Both 1 and 2
- d) None of these
- 18. Who discovered the Dunnett's test
- a) Charles Dunnet b) Charles Darwin c) Mace lewd d) John don
- 19. Which of the following test are parametric test
  - a) Anova b) wileoxon c) Kruskal wallis d) All of these
- 20. Which of the following is the characteristic of a non-genotoxic carcinogen
  - a) Has no influence on promotional stage of carcinogenesis
- b) Would be expected to produce positive responses in in vitro assays for mutagenic potential
- c) Typically exerts other forms of toxicity or disrupts cellular homeostasis
- d) Generally, shows little structural diversity.

COORDINATOR,
Internal Quality Assurance Call (IQAC),
VEERASHAIVA COLLEGE,
BELLARY-KARNATAKA.

PRINCIPAL
VEERASHAIVA COLLEGE
BALLARI



- a) acute toxicity b) chronic toxicity c) moderate toxicity d) high toxicity
- 10. What is the main objective of toxicity assessment
- a) To determine source of pathway b) To determine chemical concentration
- c) To estimate how much of substance does what kind of harm
- d) To analyze chemical exposure
- 11. LD50 in a toxicity test stands for
- a) A dose that will kill 50% of an exposed population
- b) A dose that would not affect or harm 50% of an exposed population
- c) A dose that will kill 25% of an exposed population
- d) A dose that would not kill 25% of an exposed population
- 12. Which of the following assumptions is not correct regarding risk assessment for Male reproductive effects in the absence of mechanistic data
- a) An agent that produces an adverse reproductive effect in experimental animal is assumed to pose a potential reproductive hazard to humans
- b) In general, a non-threshold is assumed for the close response curve for male reproductive toxicity
  - c) Effects of xenobiotics on male reproduction are assumed to be similar across species unless demonstrated otherwise
  - d) The most sensitive species should be used to estimate human risk
- 13. Which of the following toxicity can occur due to single exposure
- a) Acute toxicity b) sub-acute toxicity c) sub-chronic toxicity d) chronic toxicity.
- 14. The most common target organ of toxicity is
  - a) Heart b) Lung c) CNS(brain and spinal cord) d) Skin
  - 15. Toxicokinetics deals with
    - a) Absorption, distribution b) Bio transformation and excretion of shemical

c) Both 1 and 2 d) None of these

Internal Quality Assurance Cell (IQAC

VEERASHAIVA COLLEGE. BELLARY-KARNATAKA.

16. Saturation kinetics is also known as

a) Linear pharmacokinetics b) Non - planar pharmacokinetics

c) Straight line pharmacokinetics d) Nonlinear pharmacokinetics



# Veerashaiva degree college, BALLARI Department of PG studies in Zoology

Paper 4–DSC8: Cancer and Radiation biology

2<sup>nd</sup> Internal assessment examination II - SEM

Date: 29.07.22

Time: 1.30 Hour

Maximum marks: 30

I. Answer the following in one or 2 sentences each: 5x1=5

1. Define ontogenesis.

2. What is radiation clesions in DNA?

3. Expand a) RBE b) HRS

4. What are anti-cancer drugs?

5. Define gene amplification.

II. Answer any three of the following in brief:

31/5 = 05

6. Explain cancer therapy at gene level.

7. Discuss various clinical trial phases (Phase I, II, III) in cancer treatment.

8. Explain a) Induced repair (IRR) b) Major types of DNA repair.

9. Discuss the molecular target of a) Bi standard epigenetic effects

b) Radiation sensitizers.

III. Answer any one of the following in detail:

1x10=10

10. Discuss a) Scope & significance of radiation biology.

b) Cellular radiobiology

11. Explain ionizing radiation I detail.

BELLARY-KARNATAKA.

VEERASHAIVA COLLEGE BALLARI





#### V.V. Sangha's

#### VEERASHAIVA COLLEGE, BALLARI.

B.Sc II SEM Second Internal- 2022-23

Subject: Botany Paper: DSC-2.1 Diversity of Non-Flowering plants

Date: 10-08-2023

Marks: 20

5 Marks

Answer the following:

1. What is Diatomaceous Earth?

2. What are Algal Blooms?

3. What are Gemmae?

4. Define Paraphysis.

5. Alternate Name of Selaginella?

6. Give Indian any two Indian Examples of Equisetum?

7. What is Corolloid Root?

Answer the following (Any 3)

15 Marks

8. What are Diatoms and explain its Importance?

9. Explain the Morphology and Reproductive Parts of Selaginella?

10. Explain the T.S. of Equisetum. With neat labeled diagram?

11. Explain the T.S. of Leaf of Cycos. With neat labeled diagram?

12. Give a brief account on the general characters of Gymnosperms?

# V.V. Sangha's VEERASHAIVA COLLEGE, BALLARI.

B.Sc II SEM Second Internal- 2022-23

Subject: Botany Paper: DSC-2.1 Diversity of Non-Flowering plants

Date: 10-08-2023

Marks: 20

5 Marks

Answer the following:

- 1. What is Diatomaceous Earth?
- 2. What are Algal Blooms?
- 3. What are Gemmae?
- 4. Define Paraphysis.
- 5. Alternate Name of Selaginella?
- 6. Give Indian any two Indian Examples of Equisetum?
- 7. What is Corolloid Root?

Answer the following (Any 3)

15 Marks

8. What are Diatoms and explain its Importance?

9. Explain the Morphology and Reproductive Parts of Selaginella?

10. Explain the T.S. of Equisetum. With neat labeled diagram?

11. Explain the T.S. of Leaf of Cycas. With neat labeled diagram?

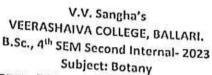
12. Give a brief account on the general characters of Gymnosperms?

COORDINATOR,

Internal Quality Assurance Cell (IQAC), VEERASHAIVA COLLEGE,

BELLARY-KARNATAKA.

PRINCIPAL
VEERASHAIVA COLLEGE
WALLARI



Paper: DSC-4.1 Ecology and Conservation Biology

Date: 09-08-2023 Answer any 5 of the following

Marks: 20

5Marks

15Marks

1) What is Ecological Succession? 2) What is Hydrosere?

3) What is Sedimentary Cycle?

4) What is the % of Forest Area in Karnataka?

5) What is Water Quality Indicators?

6) Define is Solid Waste Management.

7) Give any two Plant Species names Western Ghats

II) Answer the following (Any 3)

8) Explain Ecological Pyramids and Pyramid energy

9) Explain Biogeochemical Cycles of Nitrogen.

10) Explain the Vegetation Types of Karnataka.

11) Write the Waste Water Treatment Process.

12) What is Acid Rain and its Formations and also its Effects.

V.V. Sangha's VEERASHAIVA COLLEGE, BALLARI. B.Sc., 4th SEM Second Internal- 2023 Subject: Botany

Paper: DSC-4.1 Ecology and Conservation Biology

Date: 09-08-2023

Marks: 20

5Marks

15Marks

Answer any 5 of the following

1) What is Ecological succession?

2) What is Hydrosere?

3) What is Sedimentary Cycle?

4) What is the % of Forest Area in Karnataka?

5) What is Water Quality Indicators?

6) Define is Solid Waste Management.

7) Give any two Plant Species names Western Ghats

II) Answer the following (Any 3)

8) Explain Ecological Pyramids and Pyramid energy

9) Explain Biogeochemical Cycles of Nitrogen.

10) Explain the Vegetation Types of Karnataka.

11) Write the Waste Water Treatment Process.

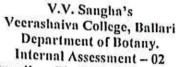
12) What is Acid Rain and its Formations and also its Effects.

Internal Quality Assurance Cell (IQAC), VEERASHAIVA COLLEGE,

BELLARY-KARNATAKA.

**VEERASHAIVA COLLEGE** BALLARI







Paper - 6.1 Plant Breeding, Biotechnology and Plant Tissue Culture

Date 07-08-2023 I Answer the following in one sentence (any 5)

20 Marks 05 Marks

- 1. Define Genetic Engineering.
- 2. What is meant by r-DNA Technology?
- 3. Who is the Father of Indian DNA Fingerprinting?
- 4. Define the term Plant Tissue Culture.
- 5. Who is the Father of Plant Tissue Culture?
- Define the term Callus.
- 7. Define Totipotency.

# II Answer the following in brief (any 3)

15 Marks

- 8. Explain the Tools of Genetic Engineering?
- 9. Explain the Vector pBR322. With neat labeled diagram?
- 10. Who proposed PCR and Explain the Steps involved in PCR?
- 11. Explain the term Tissue Culture with its Aim and Scope?
- 12. Explain the concept of Totipotency?

V.V. Sangha's Veerashaiva College, Ballari Department of Botany. Internal Assessment - 02

Paper - 6.1 Plant Breeding, Biotechnology and Plant Tissue Culture

Date 07-08-2023

I Answer the following in one sentence (any 5)

20 Marks 05 Marks

- Define Genetic Engineering.
- 2. What is meant by r-DNA Technology?
- 3. Who is the Father of Indian DNA Fingerprinting?
- 4. Define the term Plant Tissue Culture.
- 5. Who is the Father of Plant Tissue Culture?
- 6. Define the term Callus.
- 7. Define Totipotency.

#### II Answer the following in brief (any 3)

15 Marks

- 8. Explain the Tools of Genetic Engineering?
- 9. Explain the Vector pBR322. With neat labeled diagram?
- 10. Who proposed PCR and Explain the Steps involved in PCR?
- 11. Explain the term Tissue Culture with its Aim and Scope?
- 12. Explain the concept of Totipotency?

Internal Quality Assurance Cell (IQAC). VEERASHAIVA COLLEGE, BELLARY-KARNATAKA.

SHAIVA COLLEGE



20 Marks 05 Marks

15 Marks

#### V.V. Sangha's Veerashaiya College, Ballari Department of Botany. Internal Assessment - 02

Paper - 6.1 Plant Breeding, Biotechnology and Plant Tissue Culture

## Date 07-08-2023 1 Answer the following in one sentence (any 5)

Define Genetic Engineering.

- What is meant by r-DNA Technology?
- 3. Who is the Father of Indian DNA Fingerprinting?
- 4. Define the term Plant Tissue Culture,
- 5. Who is the Father of Plant Tissue Culture?
- 6. Define the term Callus,
- 7. Define Totipotency.

# H Answer the following in brief (any 3)

8. Explain the Tools of Genetic Engineering?

- Explain the Vector p<sup>BR322</sup>. With neat labeled diagram?
- 10. Who proposed PCR and Explain the Steps involved in PCR?
- 11. Explain the term Tissue Culture with its Aim and Scope?
- 12. Explain the concept of Totipotency?

V.V. Sangha's Veerashaiya College, Ballari Department of Botany. Internal Assessment - 02

Paper - 6.1 Plant Breeding, Biotechnology and Plant Tissue Culture

#### Date 07-08-2023

I Answer the following in one sentence (any 5)

- 1. Define Genetic Engineering.
- 2. What is meant by r-DNA Technology?
- 3. Who is the Father of Indian DNA Fingerprinting?
- 4. Define the term Plant Tissue Culture.
- 5. Who is the Father of Plant Tissue Culture?
- 6. Define the term Callus.
- Define Totipotency.

#### 11 Answer the following in brief (any 3)

8. Explain the Tools of Genetic Engineering?

9. Explain the Vector pBR322. With neat labeled diagram?

10. Who proposed PCR and Explain the Steps involved in PCR?

11. Explain the term Tissue Culture with its Aim and Scope?

12. Explain the concept of Totipotency?

Internal Quality Assurance Cell (IQAC). VEERASHAIVA COLLEGE,

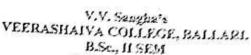
BELLARY-KARNATAKA.

15 Marks

20 Marks

05 Marks

**EERASHAIVA** COLLEGE BALLARI



First internal-2023 Subject: Botany

Paper: DSC-2.1 Diversity of non-flowering plants

Date: 14-07-2023

Markey 20

SMarka

# Q.I) Answer any 5 of the following:

1) Who is the father of Indian Algology or Phycology?

2) What is mean by flagella?

3) What are pigments?

4) Which species is also called Bog mass?

5) What is Rhizoids?

Bryophytes are also called ———— of plant kingdom.

7) What are Cryptogames?

II) Answer the following (Any 3)

15Marks

Explain the morphology and reproductive structure of Oedogonium.

Write a note on general characteristics of algae. 10) Write a note on Classification of Bryophytes?

11) Explain the morphology and reproductive structure of Riccia.

12) Write a note on general characteristics of Pteridophytes.

V.V. Sangha's VEERASHAIVA COLLEGE, BALLARI.

B.Sc., II SEM First internal- 2023 Subject: Botany

Paper: DSC-2.1 Diversity of non-flowering plants

Date: 14-07-2023

Marks: 20

5 Marks

#### Q.I) Answer any 5 of the following:

Who is the father of Indian Algology or Phycology?

2) What is mean by flagella?

3) What are pigments?

4) Which species is also called Bog mass?

5) What is Rhizoids?

Bryophytes are also called — of plant kingdom.

7) What are Cryptogams?

Q. II) Answer the following (Any 3)

8) Explain the morphology and reproductive structure of Oedogonium.

9) Write a note on general characteristics of algae.

10) Write a note on Classification of Bryophytes?

11) Explain the morphology and reproductive structure of Riccia.

12) Write a note on general characteristics of Pteridophytes.

15 Marks

FERASHAIVA COLLEGE

MALLARI

Internal Quality Assurance Cell (10AC)

## V.V. Sangha's VEERASHAIVA COLLEGE, BALLARI. B.Sc., 6th SEM

First internal- 2023 Subject: Botany

Paper: DSC-6.2 Plant Physiology

Date: 15-07-2023

Q.I) Answer any 5 of the following

1) What is plasmosis?

2) What is endosmosis?

3) Which tissue is responsible for the assent of sap.

4) What is lenticular transpiration?

5) What is diffusion?

6) What is osmosis?

7) What is plant physiology

Q.II) Answer the following (Any 3)

8) Describe Respiratory quotient.

9) Write a note on water potential.

10) Describe the mechanism of active osmatic absorption.

11) Describe Dixons and jolly theory of cohesion.

12) Describe starch-sugar inter conversion theory

V.V. Sangha's VEERASHAIVA COLLEGE, BALLARI.

B.Sc., 6th SEM First internal- 2023 Subject: Botany

Paper: DSC-6.2 Plant Physiology

Date: 15-07-2023

Q.I) Answer any 5 of the following

1) What is plasmosis?

2) What is endosmosis?

3) Which tissue is responsible for the assent of sap.

4) What is lenticular transpiration?

5) What is diffusion?

6) What is osmosis?

7) What is plant physiology

O.II) Answer the following (Any 3)

8) Describe Respiratory quotient.

9) Write a note on water potential.

10) Describe the mechanism of active osmatic absorption.

11) Describe Dixons and jolly theory of cohesion.

12) Describe starch- sugar inter conversion theory

Internal Quality Assurance Cell (IQAC). VEERASHAIVA COLLEGE, BELLARY-KARNATAKA.

Marks: 20

5Marks

15Marks

Marks: 20

5Marks

15Marks

WEERASHAIVA COLLEGE MALLARI

# V.V. Sangha's VEERASHAIVA COLLEGE, BALLARI.

B.Sc., 6th SEM First internal- 2023

Subject: Botany

Paper: DSC-6.1 Plant breeding, biotechnology and plant tissue culture Date: 12-07-2023

Q.1) Answer any 5 of the following

1) What is plant breeding?

2) What is Quarantine?

3) What is mass selection?

4) What is grafting?

5) What is tagging?

6) What is pure line selection?

7) What is hybridization?

Q.II) Answer the following (Any 3)

8) Explain the mass selection.

9) Describe the objectives of plant Breeding.

10) Write a note on cutting type in propagation. 11) Explain wedge grafting

12) Explain the types of hybridization.

V.V. Sangha's VEERASHAIVA COLLEGE, BALLARI. B.Sc., 6th SEM

First internal- 2023 Subject: Botany

Paper: DSC-6.1 Plant breeding, biotechnology and plant tissue culture

Date: 12-07-2023 Marks: 20 Q.I) Answer any 5 of the following

1) What is plant breeding?

2) What is Quarantine?

3) What is mass selection?

4) What is grafting?

5) What is tagging?

6) What is pure line selection?

7) What is hybridization?

Q.II) Answer the following (Any 3)

8) Explain the mass selection.

9) Describe the objectives of plant Breeding.

10) Write a note on cutting type in propagation.

11) Explain wedge grafting

12) Explain the types of hybridization.

Internal Quality Assurance Cell (IQAC),

VEERASHAIVA COLLEGE,

BULLARY-KARNATAKA.

15 Marks

5 Marks

Marks: 20

5 Marks

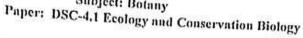
15 Marks

VEERASHAIVA COLLEGE BALLARI



# V.V. Sangha's VEERASHAIVA COLLEGE, BALLARI.

B.Sc., 4th SEM First internal- 2023 Subject: Botany





Marks: 20

15 Marks

5 Marks

Date: 13-07-2023

Q.I) Answer any 5 of the following

1) What is Ecology?

2) What are xerophytes?

3) What is halophytes?

4) What are the biotic components.

5) What is Ecosystem?

6) Which person is divided the 9 phytogeograpical regions of India.

7) What is avarage rain fall of Assam Region.

Q. II) Answer the following (Any 3) 8) What is soil and explain its types.

9) Explain the soil formation and physic-chemical properties

10) Detailed structure of pond ecosystem.

11) Explain the food chain grazing and food web.

12) Explain any 5 phytogegraphical regions of India

## V.V. Sangha's VEERASHAIVA COLLEGE, BALLARI.

B.Sc., 4th SEM First internal- 2023 Subject: Botany

Paper: DSC-4.1 Ecology and Conservation Biology

Date: 13-07-2023

Q.I) Answer any 5 of the following

1) What is Ecology? 2) What are xerophytes?

3) What is halophytes?

4) What are the biotic components.

5) What is Ecosystem?

6) Which person is divided the 9 phytogeograpical regions of India.

7) What is avarage rain fall of Assam Region.

Q. II) Answer the following (Any 3)

What is soil and explain its types.

9) Explain the soil formation and physico chemical properties

10) Detailed structure of pond ecosystem.

11) Explain the food chain grazing and food web.

12) Explain any 5 phytogegraphical regions of India

Internal Quality Assurance Cell (IQAC), VEERASHAIVA COLLEGE, BELLARY-KARNATAKA.

15 Marks

Marks: 20

5 Marks

PRINCIPAL

**VEERASHAIVA COLLEGE** 

MALLARI



Max Jack

## Vecrashahra Collage, Radiary. Department of Computer Science BCA IV Semester FIRST Internal-Feb 2017

Paper: Numerical Methods (NM)

Answer any four of the following questions:

1. Define dassification, types of dassification with an example.

II.  $x^4 - x - 10 = 0$  (1.8 - 2) regula falst method(3 decimal places).

III. Find cube roots of 24 by Newton's-Ruphsons method (3-decimal places)

IV. Pepare afrequency distribution table with class intervals of 5 to the following data 60 54 75 77 70 68 51 59 57 63 60 50 69 74 58 74 61 65 65 77 68 64 65 67 53 53 63 63 78 57 56 58 21 59 61 83 65 69 63 62,

V. For the following data prepare f.d.t in inclusive method.

12 36 40 16 10 10 19 20 28 30 19 27 15 21 23 44 7 19 20 35 25 37 6 5 20 30 37 17 11 20

Veerashaiya College, Bellary. Department of Computer Science BCA IV Semester FIRST Internal-Feb 2017

Paper: Numerical Methods (NM)

Answer any four of the following questions:

Marcha 21

- Define classification, types of classification with an example.
  - II.  $x^4 x 10 = 0$  (1.8 2) regula falst method (3 decimal places).
  - III. find cube roots of 24 by Newton's-Rophsons method (2-desired places)
  - IV. Pepare afrequency distribution table with class intervals of 5 fo the following data: 60 54 75 77 70 68 51 59 57 63 60 50 69 74 58 74 61 65 65 77 82 64 65 67 53 53 63 62 78 57 58 58 81 59 61 83 65 69 63 62.
  - V. For the following data prepare f.d.t in indusive method

12 36 40 16 10 10 19 20 28 30 19 27 15 21 23 44 7 19 20 25 25 37 6 5 20 30 37 17 11 20

Veerashaiva College, Bellary: Department of Computer Science BCA IV Semester FIRST Internal-Feb 2017

Paper: Numerical Methods (NM)

Marriage

Answer any four of the following questions:

Define classification, types of classification with an example.

II.  $x^4 - x - 10 = 0$  (1.8 – 2) regula falsi method (3 decimal places).

III. find cube roots of 24 by Newton's-Raphsons method (3-decimal places)

IV. Pepare afrequency distribution table with class intervals of 5 fo the following data: 60 54 75 77 70 68 51 59 57 63 60 50 69 74 58 74 61 65 65 77 68 64 65 67 53 53 63 62 78 57 56 58 81 59 61 83 65 69 63 62.

V. For the following data prepare f.d.t in inclusive me

12 36 40 16 10 10 19 20 28 30 19 27 15 22 25 4 7 15 20 25 25 39 8 VEERASHAIVA COLLEGE

BELLARY-KARNATAKA.

**EERASHAIVA COLLEGE** BALLARI

## Veerashaiva College, Ballari. Department of Computer Science BCA IV Semester FIRST Internal - February. 2018

Paper: Visual Basic

L Answer any FOUR of the following questions:

- 1. What is Visual Basic? Explain characteristics of VB and Advantages of VB.
- 2. What is IDE? Briefly explain all the components of IDE.
- 3. What is Tool Box? Explain differences between
  - (i) Option button and checkbox (ii) Text box and Label(iii) List box and combo box.
- 4. What is a Form and properties window? Explain some properties.
- 5. Explain conditional & looping statements with Syntax? Explain data types and their types.

Veerashaiva College, Ballari. Department of Computer Science BCA IV Semester FIRST Internal - February. 2018

Paper: Visual Basic

Dur: 1 Hour

I. Answer any FOUR of the following questions:

 $4 \times 7.5 = 30$ 

Dur: 1 HV

 $4 \times 7.5 = 30$ 

- 1. What is Visual Basic? Explain characteristics of VB and Advantages of VB.
- 2. What is IDE? Briefly explain all the components of IDE.
- 3. What is Tool Box? Explain differences between
  - (i) Option button and checkbox (ii) Text box and Label(iii) List box and combo box.
- 4. What is a Form and properties window? Explain some properties.
- 5. Explain conditional & looping statements with Syntax? Explain data types and their types.

Veerashaiva College, Ballari. Department of Computer Science BCA IV Semester FIRST Internal - February. 2018

Paper: Visual Basic

Dur: 1 Hour

L Answer any FOUR of the following questions:

 $4 \times 7.5 = 30$ 

- 1. What is Viewal Basic? Characteristics of VB and Advantages of VB.
- 2. What is IDE? Briefly explain all the components of IDE.
- 3. Wiest is Tool Box? Explain (i) Option button (ii) Text box (iii) Timer (iv) Listbox and their properties.
- 4. What is a Form and properties window? Explain some properties.
- 5. Explain conditional & looping statements with Syntax & Example? Explain data types and their types.

Veerashaiva College, Ballari.
Department of Computer Science
BCA IV Semester FIRST Internal - February. 2018

Paper: Vieual Basic

Dur: 1 Hour

LADDWER any FOUR of the following questions:

 $4 \times 7.5 = 30$ 

- 1. What h Viewal Basic? Explain characteristics of VB and Advantages of VB.
- 2. What is IDE? Briefly explain all the components of IDE.
- 3. What is Tool Bor? Explain (i) Option button (ii) Text box (iii) Timer (iv) Listbox and time properties.
- 4. What is a Form and properties window? Explain some properties.
- 5. Explain conditional & looping statements with Syntax & Example? Explain data types and their & &

Internal Quality Assurance Cell (IQAC), VEERASHAIVA COLLEGE,

VEERASHAIVA COLLEGI

BELLARY-KARNATAKA.

# Veerashaiva College, Bellary, Department of Computer Science

# BCA IV Semester FIRST Internal Feb-2018

## Paper: E-Commerce

# I. Answer all the following questions:

- 1. Define E-commerce? Explain advantage and disadvantages of E-Commerce.
- 2. Define EDI? Explain EDI system layered Architecture.
- 3. Explain classification of E-Commerce
- 4. Write a short note on FTP and HTTP.

#### Veerashaiva College, Bellary. Department of Computer Science BCA IV Semester FIRST Internal Feb-2018

Paper: E-Commerce

Dur : 1 Hour

I. Answer all the following questions:

 $4 \times 7.5 = 30$ 

4 x 7.5 - 36

- 1. Define E-commerce? Explain advantage and disadvantages of E-Commerce.
- 2. Define EDI? Explain EDI system layered Architecture.
- 3. Explain classification of E-Commerce
- 4. Write a short note on FTP and HTTP.

## Veerashaiva College, Bellary. Department of Computer Science BCA IV Semester FIRST Internal Feb-2018

Paper: E-Commerce

Dur: 1 Hour

#### I. Answer all the following questions:

 $4 \times 7.5 = 30$ 

- 1. Define E-commerce? Explain advantage and disadvantages of E-Commerce.
- 2. Define EDI? Explain EDI system layered Architecture.
- 3. Explain classification of E-Commerce
- 4. Write a short note on FTP and HTTP.

Veerashaiva College, Bellary. Department of Computer Science BCA IV Semester FIRST Internal Feb-2018

Paper: E-Commerce

Dur: 1 Hour

 $4 \times 7.5 = 30$ 

I. Answer all the following questions:

1. Define E-commerce? Explain advantage and disadvantages of E-Commerce.

2. Define EDI? Explain EDI system layered Architecture.

3. Explain classification of E-Commerce

4. Write a short note on FTP and HTTP.

Internal Quality Assurance Cell (IQAC),

VEERASHAIVA COLLEGE,

BELLARY-KARNATAKA.

VEERASHAIVA COLLEGE BALLARI

## Veerashaiva College, Bellary. Department of Computer Science BCA IV Semester FIRST Internal-Feb. 2018

Paper: Data Warehousing and Data Mining

I. Answer any five of the following questions:

- 1. What is Data Mining? Explain the kinds of patterns can be mined.
- 2. What is Data Cleaning? Explain Missing values and Noisy Data.
- 3. What is Data Warehouse? Explain Stars, Snowflakes, and Fact Constellations Schema for multi-dimensional data model.
- 4. What is cluster analysis? Briefly explain BIRCH and CHAMELEON hierarchical
- 5. Briefly explain mining sequence data using Timeseries, Symbolic Sequence, and Biological Sequence.
- 6. What is cluster analysis? Explain requirements for cluster analysis.

Veerashaiva College, Bellary. Department of Computer Science BCA IV Semester FIRST Internal-Feb. 2018

Paper: Data Warehousing and Data Mining

I. Answer any five of the following questions:

Dur: 1 Hour

Dur : 1 Hour

5x 4 = 20

JEERA

5x 4 = 20

- 1. What is Data Mining? Explain the kinds of patterns can be mined.
- 2. What is Data Cleaning? Explain Missing values and Noisy Data.
- 3. What is Data Warehouse? Explain Stars, Snowflakes, and Fact Constellations Schema for multi-dimensional data model.
- 4. What is cluster analysis? Briefly explain BIRCH and CHAMELEON hierarchical methods.
- 5. Briefly explain mining sequence data using Timeseries, Symbolic Sequence, and Biological Sequence.
- 6. What is cluster analysis? Explain requirements for cluster analysis.

Veerashaiva College, Bellary. Department of Computer Science BCA IV Semester FIRST Internal-Feb. 2018

Paper: Data Warehousing and Data Mining

Dur: 1 Hour

5x 4 = 20

- I. Answer any five of the following questions: 1. What is Data Mining? Explain the kinds of patterns can be mined.
- 2. What is Data Cleaning? Explain Missing values and Noisy Data.
- 3. What is Data Warehouse? Explain Stars, Snowflakes, and Fact Constellations Schema for multi-dimensional data model.
- 4. What is cluster analysis? Briefly explain BIRCH and CHAMELEON hierarchical methods.
- 5. Briefly explain mining sequence data using Timeseries, Symbolic Sequence, and Biological Sequence.
- 6. What is cluster analysis? Explain requirements for cluster analysis.

FERASHAIVA COLLEGE Internal Quality Assurance Cell (IQAC).

VEERASHAEVA COLLUGE, DELIARY-KARNATASA.

## Veerashaiya College, Bellary, Department of Computer Science BCA IV Semester First Internal - Egh, 2018

Papert Basic English

I. Answer the following questions:

- 1. Write the character of Rutan Rathor,
- 2. Write a paragraph on "All that glitters is not gold".



Veerashaiva College, Bellary.
Department of Computer Science
BCA IV Semester First Internal - Feb. 2018

Paper: Basic English

L. Answer the following questions:

- 1. Write the character of Ratan Rathor.
- 2. Write a paragraph on "All that glitters is not gold".

Dur: 1 Hour  $2 \times 5 = 10$ 

Veerashaiva College, Bellary.
Department of Computer Science
BCA IV Semester First Internal - Feb. 2018

Paper: Basic English

I. Answer the following questions:

- 1. Write the character of Ratan Rathor.
- 2. Write a paragraph on "All that glitters is not gold".

Dur: 1 Hour  $2 \times 5 = 10$ 

Veerashaiva College, Bellary.
Department of Computer Science
BCA IV Semester First Internal - Feb. 2018

Paper: Basic English

L. Answer the following questions:

- 1. Write the character of Ratan Rathor.
- 2. Write a paragraph on "All that glitters is not gold".

Dur ; 1 Hour

 $2 \times 5 = 10$ 

Veerashaiva College, Bellary.
Department of Computer Science
BCA IV Semester First Internal - Feb. 2018

Paper: Basic English

L. Answer the following questions:

1. Write the character of Ratan Rathor.

2. Write a paragraph on "All that glitters is not gold".

Dur: 1 Hour

 $2 \times 5 = 10$ 

Internal Quality Assurance Cell (IQAC),
VEERASHAIVA COLLEGE,

BELLARY-KARNATAWA.

PRINCIPAL
VEERASHAIVA COLLEGE
MALLARI

#### Veerashaiva College, Bellary. Department of Computer Science BCA II Semester FIRST Internal-Feb 2017

Paper: Discrete Mathematical Structures

## Answer any four of the following questions:



- I. Prove by Mathematical induction  $1+3+5+\dots+(2n-1) = n(n+1)/2$ .
- II. Vrify Associative and commutative law

 $A = \{1,3,4,6,8\} B = \{3,4,8\} \text{ and } C = \{1,2\} U = \{1,2,3,4,5,6,7,8,9\}.$ 

III. A computer company wants to hire 25 programmers to handle system programming job and 40 programmers for application programming, out of these 10 will expected to perform job of both types how many programmers must the company hire.

IV. A.B & C are sets such that  $AA \cap B = A \cap C$  and  $A \cup B = A \cup C$ . P. T B = C.

V. Define with an example: complement of a set, Cardinality of a set and empty set

#### Veerashaiva College, Bellary. Department of Computer Science BCA II Semester FIRST Internal-Feb 2017

Paper: Discrete Mathematical Structures

Marks:20

## Answer any four of the following questions:

- Prove by Mathematical induction  $1+3+5+\dots+(2n-1) = n(n+1)/2$ .
- II. Vrify Associative and commutative law

 $A = \{1,3,4,6,8\}$   $B = \{3,4,8\}$  and  $C = \{1,2\}$   $U = \{1,2,3,4,5,6,7,8,9\}$ .

III. A computer company wants to hire 25 programmers to handle system programming job and 40 programmers for application programming . out of these 10 will expected to perform job of both types how many programmers must the company hire.

IV. A,B & C are sets such that  $AA \cap B = A \cap c$  and  $A \cup B = A \cup C$ . P. T B = C.

V. Define with an example: complement of a set, Cardinality of a set and empty set

## Veerashaiva College, Bellary. Department of Computer Science BCA II Semester FIRST Internal-Feb 2017

Paper: Discrete Mathematical Structures

Marks:20

# Answer any four of the following questions:

- Prove by Mathematical induction  $1+3+5+\dots+(2n-1) = n(n+1)/2$ .
- II. Vrify Associative and commutative law

 $A = \{1,3,4,6,8\}$   $B = \{3,4,8\}$  and  $C = \{1,2\}$   $U = \{1,2,3,4,5,6,7,8,9\}$ .

III. A computer company wants to hire 25 programmers to handle system programming job and 40 programmers for application programming . out of these 10 will expected to perform job of both types how many programmers must the company hire.

IV. A,B & C are sets such that  $AA \cap B = A \cap c$  and  $A \cup B = A \cap C$ .

V. Define with an example: complement of a set , Cardinglity of a set and empty set

Internal Quality Assurance Cell (IQAC), VEERA VEERASHAIVA COLLEGE. RELLARY\_MADMATAWA

# Veerashaiva College, Bellary. Department of Computer Science BCA II Sem FIRST Internal-FEB, 2018

Dur : \*\*Hous-

Du

Paper: C++

I. Answer any four of the following questions;

1. What is oop? How is it different from the procedure oriented programming.

2. Explain in detail about oop's concept.

3. Explain the structure of e++ program.

4. Show the difference of Insertion and Extraction operator with diagram.

5. What are the advantages of using new and delete operator in e++.

Veerashaiva College, Bellary.
Department of Computer Science
BCA 11 Sem FIRST Internal-FEB. 2018

Paper: C++

Dur: 1 Hour

I. Answer any four of the following questions:

4x 5 = 20

- 1. What is oop? How is it different from the procedure oriented programming.
- 2. Explain in detail about oop's concept.
- 3. Explain the structure of c++ program.
- 4. Show the difference of Insertion and Extraction operator with diagram.
- 5. What are the advantages of using new and delete operator in c++.

Veerashaiva College, Bellary.
Department of Computer Science
BCA II Sem FIRST Internal-FEB. 2018

Paper: C++

Dur: 1 Hour

I. Answer any four of the following questions:

4x 5 = 20

- 1. What is oop? How is it different from the procedure oriented programming.
- 2. Explain in detail about oop's concept.
- 3. Explain the structure of c++ program.
- 4. Show the difference of Insertion and Extraction operator with diagram.
- 5. What are the advantages of using new and delete operator in e++.

Vecrashaiva College, Bellary.
Department of Computer Science
BCA II Sem FIRST Internal-FEB. 2018

Paper: C++

Dur: 1 Hour

I. Answer any four of the following questions:

4x 5 = 20

1. What is oop? How is it different from the procedure oriented programming.

- 2. Explain in detail about oop's concept.
- 3. Explain the structure of c++ program.
- 4. Show the difference of Insertion and Extraction operator with diagram.

5. What are the advantages of using new and delete opening in c++.

COORDINATOR,

VEERASHAIVA COLLEGE BALLARI

Internal Quality Assurance Cell (IQAC), VEERASHAIVA COLLEGE, BELLARY-KARNATAKA. Veerashaiva College, Bellary. Department of Computer Science BCA II Semester FIRST Internal-Feb. 2018

Paper: Database Management System

I. Answer FOUR of the following questions:

- 1. Define Data? Explain the advantages of using DBMS
- 2. Define Relational? and write a symbols used in ER-Diagram.
- 3. define database? Explain characteristics of database approach.
- 4. Define DBMS? Explain with neat diagram Three-schema Architecture.



Vecrashaiva College, Bellary.
Department of Computer Science
BCA II Semester FIRST Internal-Feb. 2019

Paper: Database Management System

I. Answer FOUR of the following questions:

- 1. Define Data? Explain the advantages of using DBMS
- 2. Define Relational? and write a symbols used in ER-Diagram.
- 3. define database? Explain characteristics of database approach.
- 4. Define DBMS? Explain with neat diagram Three-schema Architecture.

Dur: 1 Hour  $4 \times 7.5 = 30$ 

Veerashaiva College, Bellary.
Department of Computer Science
BCA II Semester FIRST Internal-Feb. 2019

Paper: Database Management System

I. Answer FOUR of the following questions:

- 1. Define Data? Explain the advantages of using DBMS
- 2. Define Relational? and write a symbols used in ER-Diagram.
- 3. define database? Explain characteristics of database approach.
- 4. Define DBMS? Explain with neat diagram Three-schema Architecture.

Dur: 1 Hour  $4 \times 7.5 = 30$ 

COORDINATOR,
Internal Quality Assurance Cell (IC
VEERASHAIVA COLLEGE,
EELLARY-KARNATAKA.

Veerashaiva College, Bellary.
Department of Computer Science
BCA II Semester FIRST Internal-Feb. 2019

Paper: Database Management System

I. Answer FOUR of the following questions:

- 1. Define Data? Explain the advantages of using DBMS
- 2. Define Relational? and write a symbols used in ER-Diagram.
- 3. define database? Explain characteristics of database approach.
- 4. Define DBMS? Explain with neat diagram Three-schema Architecture.

Dur: 1 Hour 4 x 7.5 = 30

PRINCIPAL
VEERASHAIVA COLLEGE
BALLARI

#### Vectashniva Callege, Bellary. Department of Computer Science BCA VI Semester SECOND Internal April-2018

Paper: System Software

1. Answer the following questions:

t. What is louder? explain any two loader design options.

2. Explain the structure of a text editor with a neat diagram.

3. What is Macro processor? Briefly explain Macro Processor Algorithm and Data Structures.

4. With an example explain generations of unique labels in macros.



Dur: 1 Hour

Dur: 1 Hour

 $5 \times 4 = 20$ 

5 x 4= 20

Vecushalva College, Bellary,
Department of Computer Science
BCA VI Semester SECOND Internal April-2018

Paper: System Software

1. Answer the following questions:

1. What is loader? explain any two loader design options,

2. Explain the structure of a text editor with a neat diagram.

3. What is Macro processor? Briefly explain Macro Processor Algorithm and Data Structures.

4. With an example explain generations of unique labels in macros.

Veerashaiva College, Bellary.
Department of Computer Science
BCA VI Semester SECOND Internal April-2018

Paper: System Software

1. Answer the following questions:

1. What is loader? explain any two loader design options.

Explain the structure of a text editor with a nent diagram.
 What is Macro processor? Briefly explain Macro Processor Algorithm and Data Structures.

4. With an example explain generations of unique tabels in macros,

Veerashaiva College, Bellary.
Department of Computer Science
BCA VI Semester SECOND Internal April-2018

Paper: System Software

1. Answer the following questions:

1. What is loader? explain any two loader design options.

2. Explain the structure of a text editor with a neat diagram.

3. What is Macro processor? Briefly explain Macro Processor Algorithm and Data Structures.

4. With an example explain generations of unique labels in macros.

COORDINATOR,
Internal Quality Assurance Cell (IQAC),

VEERASHAIVA COLLEGE, BELLARY-KARNATAKA. lucey.

PRINCIPAL
VEERASHAIVA COLLEGE
BALLARI

Dur: 1 Hour

 $5 \times 4 = 20$ 

# Veerashaiva College, Bellary. Department of Computer Science BCA VI Semester SECOND Internal April-2018

paper: Multimedia

# LAnswer all the following questions:

- 1. Explain in detail the different types of Image formats.
- 2. Explain structure of compact disc with neat diagram.
- 3. Explain parameters o High-Definition television.
- 4. Explain advantages of using compact disc.

Vecrashaiva College, Bellary.
Department of Computer Science
BCA VI Semester SECOND Internal April-2018

Paper: Multimedia

Dur: 1 Hour  $4 \times 5 = 20$ 

l, Auswer all the following questions:

- 1. Explain in detail the different types of Image formats.
- 2. Explain structure of compact disc with neat diagram.
- 3. Explain parameters o High-Definition television.
- 4. Explain advantages of using compact disc.

Veerashaiva College, Bellary.
Department of Computer Science
BCA VI Semester SECOND Internal April-2018

Paper: Multimedia

Dur: 1 Hour

 $4 \times 5 = 20$ 

 $4 \times 5 = 20$ 

. Answer all the following questions:

1. Explain in detail the different types of Image formats.

- 2. Explain structure of compact disc with neat diagram.
- 3. Explain parameters o High-Definition television.
- 4. Explain advantages of using compact disc.

Veerashaiva College, Bellary.
Department of Computer Science
BCA VI Semester SECOND Internal April-2018

aper: Multimedia

Dur: 1 Hour  $4 \times 5 = 20$ 

Answer all the following questions:

1. Explain in detail the different types of Image formats.

2. Explain structure of compact disc with neat diagram.

3. Explain parameters o High-Definition television.

4. Explain advantages of using compact disc.

Internal Quality Assurance Cell (IQAC),

VEERASHAIVA COLLEGE, BELLARY-KARNATAKA. PRINCIPAL ERASHAIVA COLLEGE

BALLARI

# Vecrashaiya College, Ballari. Department of Computer Science

BCA VI Semester SECOND Internal - April. 2018

Paper: Unix & Shell Programming

I. Answer any FOUR of the following questions:

1. What are signals and interrupts? List out the interrupts used in Unix.

2. Explain different steps in creating a file system in Unix.

3. What is difference b/w system calls and library functions? Explain awk (advanced fifter).

4. What is process and process id? Explain different types of scheduling a process.

5. Write a note on (a) check disk (b) Basic filters (c)grep.

Veerashaiva College, Ballari. Department of Computer Science BCA VI Semester SECOND Internal - April. 2018

Paper: Unix & Shell Programming

I. Answer any FOUR of the following questions:

1. What are signals and interrupts? List out the interrupts used in Unix. 2. Explain different steps in creating a file system in Unix.

3. What is difference b/w system calls and library functions? Explain awk (advanced filter).

4. What is process and process id? Explain different types of scheduling a process-

5. Write a note on (a) check disk (b) Basic filters (c)grep.

Veerashaiva College, Ballari. Department of Computer Science BCA VI Semester SECOND Internal - April. 2018

Paper: Unix & Shell Programming

Dur: 1 Hour

Dur: 1 Hour

4x5 = 20

I. Answer any FOUR of the following questions:

 $4 \times 5 = 20$ 

1. What are signals and interrupts? List out the interrupts used in Unix.

Explain different steps in creating a file system in Unix.

3. What is difference b/w system calls and library functions? Explain awk (advanced filter).

4. What is process and process id? Explain different types of scheduling a process.

5. Write a note on (a) check disk (b) Basic filters (c)grep.

Veerashaiva College, Ballari. Department of Computer Science BCA VI Semester SECOND Internal - April. 2018

Paper: Unix & Shell Programming

Dur: 1 Hour

I. Answer any FOUR of the following questions:

 $4 \times 5 = 20$ 

1. What are signals and interrupts? List out the interrupts used in Unix.

2. Explain different steps in creating a file system in Unix.

3. What is difference b/w system calls and library functions? Explain awk (advanced filter).

4. What is process and process id? Explain different types of scheduling a process.

5. Write a note on (a) check disk (b) Basic filters (c)grep.

Internal Quality Assurance Cell (IQAC), VEERASHAIVA COLLEGE,

BELLARY-KARNATAKA.

PRINCIPAL **VEERASHAIVA COLLEGE** 

BALLARI

## Vecrashaiva College, Ballari. Department of Computer Science BCA VI Semester SECOND Internal - April. 2018

Paper: Unix & Shell Programming

I. Answer any FOUR of the following questions:

1. What are signals and interrupts? List out the interrupts used in Unix.

2. Explain different steps in creating a file system in Unix.

3. What is difference b/w system calls and library functions? Explain awk (advanced filter).

4. What is process and process id? Explain different types of scheduling a process.

5. Write a note on (a) check disk (b) Basic filters (c)grep.

Vecrashaiya College, Ballari. Department of Computer Science BCA VI Semester SECOND Internal - April. 2018

Paper: Unix & Shell Programming

Dur: 1 Hour

 $4 \times 5 = 20$ 

Dur : 1 Mdur

 $4 \times 5 = 20$ 

I. Answer any FOUR of the following questions:

1. What are signals and interrupts? List out the interrupts used in Unix.

2. Explain different steps in creating a file system in Unix.

3. What is difference b/w system calls and library functions? Explain awk (advanced filter).

4. What is process and process id? Explain different types of scheduling a process.

5. Write a note on (a) check disk (b) Basic filters (c)grep.

Vecrashaiva College, Ballari. Department of Computer Science BCA VI Semester SECOND Internal - April, 2018

Paper: Unix & Shell Programming

Dur: 1 Hour

 $4 \times 5 = 20$ 

I. Answer any FOUR of the following questions:

1. What are signals and interrupts? List out the interrupts used in Unix.

2. Explain different steps in creating a file system in Unix.

3. What is difference b/w system calls and library functions? Explain awk (advanced filter).

4. What is process and process id? Explain different types of scheduling a process.

5. Write a note on (a) check disk (b) Basic filters (c)grep.

Veerashaiva College, Ballari. Department of Computer Science BCA VI Semester SECOND Internal - April. 2018

Paper: Unix & Shell Programming

Dur: 1 Hour

 $4 \times 5 = 20$ 

I. Answer any FOUR of the following questions:

1. What are signals and interrupts? List out the interrupts used in Unix.

2. Explain different steps in creating a file system in Unix.

3. What is difference b/w system calls and library functions? Explain awk (advanced filter).

4. What is process and process id? Explain different types of scheduling a process.

5. Write a note on (a) check disk (b) Basic filters (c)grep.

Internal Quality Assurance Cell (IQAC),

VEERASHAIVA COLLEGE, BELLARY-KARNATAKA.

PRINCIPAL **VEERASHAIVA COLLEGE** BALLARI

## Veerashaiya College, Ballari. Department of Computer Science

BCA VI Semester SECOND Internal - April. 2018

Paper: Image Processing

I. Answer the following questions:

1. Explain briefly about Gray-Level transformations?

2. Explain in detail about 1D Fourier transformation and its inverse?

3. write in briefly about Region identification for Quad tree region identification.

4. what is Curvature, Signature, Chord distribution and Euler-Poincare characteristic.

Veerashaiva College, Ballari. Department of Computer Science

BCA VI Semester SECOND Internal - April. 2018

Paper: Image Processing

I. Answer the following questions:

1. Explain briefly about Gray-Level transformations?

2. Explain in detail about 1D Fourier transformation and its inverse?

3. write in briefly about Region identification for Quad tree region identification.

4. what is Curvature, Signature, Chord distribution and Euler-Poincare characteristic.

Veerashaiva College, Ballari.
Department of Computer Science
BCA VI Semester SECOND Internal - April. 2018

Paper: Image Processing

I. Answer the following questions:

1. Explain briefly about Gray-Level transformations?

2. Explain in detail about ID Fourier transformation and its inverse?

3. write in briefly about Region identification for Quad tree region identification.

4. what is Curvature, Signature, Chord distribution and Euler-Poincare characteristic.

Veerashaiva College, Ballari.
Department of Computer Science
BCA VI Semester SECOND Internal - April. 2018

Paper: Image Processing

I. Answer the following questions:

1. Explain briefly about Gray-Level transformations?

2. Explain in detail about ID Fourier transformation and its inverse?

3. write in briefly about Region identification for Quad tree region identification.

4. what is Curvature, Signature, Chord distribution and Euler-Poincare characteristic.

Internal Quality Assurance Cell (IQAC),

VEERASHAIVA COLLEGE, BELLARY-KARNATAKA.

PRINCIPAL
VEERASHAIVA COLLEGE
BALLARI

Dur: 1 Hour 4 x 5 = 20

r Some

Dur: 1 Hour 4 x 5 = 20

Dur: 1 Hour

Dur: 1 Hour

 $4 \times 5 = 20$ 

 $4 \times 5 = 20$ 

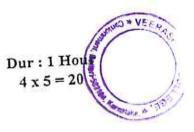
luce

## Veerashaiva College, Ballari. Department of Computer Science BCA VI Semester SECOND Internal - April. 2018

Paper: Web Technology

I. Answer any FOUR of the following questions:

- 1. Demonstrate the use of 'for each' statement in Perl.
- 2. Explain different level of Document Object Model.
- 3. Describe XML Namespaces.
- 4. What is an Event? Explain the handling events for Body and Button elements.
- 5. Write a note on: i)web services ii)XML processors



Dur: 1 Hour

 $4 \times 5 = 20$ 

Veerashaiva College, Ballari.
Department of Computer Science
BCA VI Semester SECOND Internal - April. 2018

Paper: Web Technology

I. Answer any FOUR of the following questions:

- 1. Demonstrate the use of 'for each' statement in Perl.
- 2. Explain different level of Document Object Model.
- 3. Describe XML Namespaces.
- 4. What is an Event? Explain the handling events for Body and Button elements.
- 5. Write a note on: i)web services ii)XML processors

Vecrashaiva College, Ballari.

Department of Computer Science

BCA VI Semester SECOND Internal - April. 2018

Paper: Web Technology

I. Answer any FOUR of the following questions:

- Demonstrate the use of 'for each' statement in Perl.
   Explain different level of Document Object Model.
- 3. Describe XML Namespaces.
- 4. What is an Event? Explain the handling events for Body and Button elements.
- 5. Write a note on: i)web services ii)XML processors

Veerashaiva College, Ballari.
Department of Computer Science
BCA VI Semester SECOND Internal - April. 2018

Paper: Web Technology

Dur : 1 Hour

Dur: 1 Hour

 $4 \times 5 = 20$ 

I. Answer any FOUR of the following questions:

 $4 \times 5 = 20$ 

- 1. Demonstrate the use of 'for each' statement in Perl.
- 2. Explain different level of Document Object Model.
- 3. Describe XML Namespaces.
- 4. What is an Event? Explain the handling events for Body and Button elements.

5. Write a note on: i)web services ii)XML processors

VEERASHAIVA COLLEGE BALLARI

Internal Quality Assurance Cell (IQAC), VEERASHAIVA COLLEGE, BELLARY-KARNATAKA.

#### Veerashaiva College, Bellary. Department of Computer Science BCA VI Semester SECOND Internal-APR, 2018

Paper: C# with .NET

I. Answer all the following questions:

- 1. Explain about the understanding of strong (shared) names used in shared assembly.
- 2. Discuss the below given Advanced keywords of c#:
- a) checked b)unchecked c)unsafe d)sizeof
- 3. What is delegate? Briefly explain Asynchronous delegates.
- 4. Explain the probing basics of private assembly.

Vecrashaiva College, Bellary.
Department of Computer Science
BCA VI Semester SECOND Internal-APR. 2018

Paper: C# with .NET

Dur: 1 Hour

Hour

4x5 = 20

- I. Answer all the following questions:
- 1. Explain about the understanding of strong (shared) names used in shared assembly.
- 2. Discuss the below given Advanced keywords of c#:
- a) checked b)unchecked c)unsafe d)sizeof
- 3. What is delegate? Briefly explain Asynchronous delegates.
- 4. Explain the probing basics of private assembly.

Veerashaiva College, Bellary.
Department of Computer Science
BCA VI Semester SECOND Internal-APR. 2018

Paper: C# with .NET

Dur: 1 Hour

4x5 = 20

- I. Answer all the following questions:
- 1. Explain about the understanding of strong (shared) names used in shared assembly.
- 2. Discuss the below given Advanced keywords of c#:
- a) checked b)unchecked c)unsafe d)sizeof
- 3. What is delegate? Briefly explain Asynchronous delegates.
- 4. Explain the probing basics of private assembly.

Vecrashaiva College, Bellary.
Department of Computer Science
BCA VI Semester SECOND Internal-APR. 2018

Paper: C# with .NET

Dur: 1 Hour

4x5 = 20

- I. Answer all the following questions:
- 1. Explain about the understanding of strong (shared) names used in shared assembly.
- 2. Discuss the below given Advanced keywords of c#:
  - a) checked b)unchecked c)unsafe d)sizeof
- 3. What is delegate? Briefly explain Asynchronous delegates.
- 4. Explain the probing basics of private assembly.

COOKDINATOR,
Internal Quality Assurance Cell (IQAC),
VEERASHAIVA COLLEGE,

BELLARY-KARNATAKA.

PRINCIPAL
VEERASHAIVA COLLEGE
BALLARI

Thereoveriet execus finters HOSPITATION ALCOHOMICON SCHOOL

HI TO IT GAMEROUS STEELESS CARRENDS - KERNAWY ZOSE

PRINCE UNIX TO TENED STREET REPORTED

L. Lemanur any VIII M. IA that telegrams consistence

1. Varpholin Cimir Cyclican I redistrocurs to Cour communical Corner alice example.

I. I det all the standary related comments with exact with exact the

4. Define Hood blank, hopey black to Main blank Raginto in defait brode.

A. Parphelin Aldforest contributional and Exemples makements he shell programming with system.

6. What is thurst Kaplana expected check Explain features of that compe.

Veryanismica Callege, Satisse Hodrickland of Commission Science

HI A VI CAMPAGEN PERCET FARAVAUS - REGIONARY 2058

Papers Unix & which Programming

L. A. REWET HAY VOTER OF the following greetions:

 $4 \times 5 = 20$ 

1. Explain Unix Gyelem breshlesture & timiz command format with example.

2. I do all the directory regular community with system with example.

3. Hefine Hood blook, Super blook & their blook. Kaplain in defail face.

A. Faplein different conditional and Languag statements in Shell programming with syntax.

5. What is Shot!! Frephan types in what! Krephan teachers of Shell series.

Veeradiatra College, Ballati. Department of Computer Science

BUA VI Samenter FIRST Internal - February. 2018

Paper: Unix & Shell Programming

L. Answer any FOUR of the following questions:

I. Explain Unix System Architecture & Unix command formal with example.

2. List all the directory related commands with syntax with example.

3. Define Boot block, Super block & Data block. Explain in detail Inche.

4. Explain different conditional and Loughny statements in Shell programming with syntax.

5. What is Shell? Explain types of shell. Explain features of Shell script.

Vecrashaiva College, Ballari. Department of Computer Science

BCA VI Semester FIRST Internal - February, 2018

Papers Unix & Shell Programming

L Answer any FOUR of the following questions:

Dur: 1 Hour  $4 \times 5 = 20$ 

l. Explain Unix System Architecture & Unix command format with example.

 ${\cal I}_c$  I detail the directory related commands with syntax with example.

4. Define Boot block, Super block & Data block. Explain in detail Inode.

A. Explain different conditional and Looping statements in Shell programming with syntax.

5. What is Shell? Explain types of shell, Explain features of Shell script.

COORDINATOR,

Internal Quality Assurance Cell (IQAC), VEERASHAIVA COLLEGE, RELLARY-KARNATAKA.

EERASHAIVA COLLEGE BALLARI



Dur : 1 Hour

Dur : 1 Hour

 $4 \times 5 = 20$ 

## Veerashaiva College, Bellary. Department of Computer Science BCA VI Semester FIRST Internal-Feb. 2018



Dur :1Hour 5x 4 = 20

Paper: System Programming

I. Answer any five of the following questions:

- 1. What is System Software? Explain SIC/XE Machine Architecture.
- 2. Write a program of sample data movement operations for: (i) SIC (ii) SIC/XE
- 3. Explain briefly the assembler directives with example?
- 4. Write a short note on simple SIC Assembler?
- 5. Write an algorithm for pass two assembler.
- 6. Explain simple bootstrap loader with example.

Veerashaiva College, Bellary. Department of Computer Science BCA VI Semester FIRST Internal-Feb. 2019

Paper: System Programming

Dur:1Hour

5x 4 = 20

I. Answer any five of the following questions:

- 1. What is System Software? Explain SIC/XE Machine Architecture.
- 2. Write a program of sample data movement operations for: (i) SIC (ii) SIC/XE
- 3. Explain briefly the assembler directives with example?
- 4. Write a short note on simple SIC Assembler?
- 5. Write an algorithm for pass two assembler.
- 6. Explain simple bootstrap loader with example.

Veerashaiva College, Bellary. Department of Computer Science BCA VI Semester FIRST Internal-Feb. 2019

Paper: System Programming

Dur:1Hour

5x 4 = 20

I. Answer any five of the following questions:

1. What is System Software? Explain SIC/XE Machine Architecture.

- 2. Write a program of sample data movement operations for: (i) SIC (ii) SIC/XE
- 3. Explain briefly the assembler directives with example?
- 4. Write a short note on simple SIC Assembler?
- 5. Write an algorithm for pass two assembler.
- 6. Explain simple bootstrap loader with example.

*TETRASHAIVA* COLLEGE BALLARI

Internal Quality Assurance Cell (TQAC). VPERASHATVA COLLEGE,

# Veerashaiva College, Bellary. Department of Computer Science

BCA VI Semester FIRST Internal Feb-2018

# Paper: Multimedia

# I. Answer all the following questions:

1. Define Multimedia and explain different types of multimedia.

2. Define media? Explain different types of media.

3. Explain speech recognition with neat diagram.

4. Explain different types of file formats.



Veerashaiva College, Bellary. Department of Computer Science BCA VI Semester FIRST Internal Feb-2018

Paper: Multimedia

Dur: 1 Hour

 $4 \times 5 = 20$ 

I. Answer all the following questions:

1. Define Multimedia and explain different types of multimedia.

2. Define media? Explain different types of media.

3. Explain speech recognition with neat diagram.

4. Explain different types of file formats.

Veerashaiva College, Bellary. Department of Computer Science BCA VI Semester FIRST Internal Feb-2018

Paper: Multimedia

Dur: 1 Hour

 $4 \times 5 = 20$ 

I. Answer all the following questions:

1. Define Multimedia and explain different types of multimedia.

Define media? Explain different types of media.

3. Explain speech recognition with neat diagram.

4. Explain different types of file formats.

Veerashaiva College, Bellary. Department of Computer Science BCA VI Semester FIRST Internal Feb-2018

Dur: 1 Hour

 $4 \times 5 = 20$ 

Paper: Multimedia

I. Answer all the following questions:

1. Define Multimedia and explain different types of multimedia.

2. Define media? Explain different types of media.

3. Explain speech recognition with neat diagram.

4. Explain different types of file formats.

Internal Quality Assurance Cell (IQAC). VEERASHAIVA COLLEGE,

BELLARY-KARNATAKA.

VEERASHAIVA COLLEGE BALLARI



- 1) Verify Euler's theorem on Euler's phi-function for a=9 and n=4, using maxima software
- 2) Verify the Euler's theorem and its extension for the homogeneous Function  $u = \sin\left(\frac{y}{x}\right) + \tan^{-1}\left(\frac{y}{x}\right)$ , using maxima software.

1) Evaluate:  $\int_c (x+y)dx + (y-x)dy$  along the curve  $x=y^2$ , between the points (1, 1) and (4, 2), using maxima software.

- 2) Verify Euler's theorem on Euler's phi-function for a=9 and n=4, using maxima software.
- 1) Evaluate:  $\int_0^a \int_{x^2}^{2a-x} xy \, dy \, dx$ , using maxima software.
- 2) Verify Fermat's Theorem for a=15 and p=40, using maxima software.
- 1) Evaluate:  $\int_{1}^{2} \int_{1}^{2} \int_{0}^{1} x^{2}yz \, dx \, dy \, dz$ , using maxima software.
- 2) Verify Euler's theorem on Euler's phi-function for a=9 and n=4, using

Internal Quality Assurance Cell (IQAC), VEERASHAIVA COLLEGE, BELLARY-KARNATAKA.

**VEERASHAIVA** COLLEGE



# B.Sc 2nd Semester I.A-1 practical Question Paper

- 1) Verify Fermat's Theorem for a=14 and p=19, using maxima software.
- 2) Verify the Euler's theorem and its extension for the homogeneous function  $u = x^3 + y^3 3bxy^2$ , using maxima software.
- 1) Verify Fermat's Theorem for a=15 and p=40, using maxima software.
- 2) Verify the Euler's theorem and its extension for the homogeneous function

 $u = \sin\left(\frac{y}{x}\right) + \tan^{-1}\left(\frac{y}{x}\right)$ , using maxima software.

- 1) Verify Fermat's Theorem for a=100 and p=23, using maxima software.
- 2) Evaluate:  $\int_c (2y + x^2) dx + (3x y) dy$  along the curve x=2t,  $y=t^2+3$ , where  $0 \le t \le 1$ , using maxima software.
- 1) Verify Euler's theorem on Euler's phi-function for a=15 and n=28, using maxima software.
- 2) Verify the Euler's theorem and its extension for the homogeneous function

 $u = \sin\left(\frac{y}{x}\right) + \tan^{-1}\left(\frac{y}{x}\right)$ , using maxima software.

VEERASHAIVA COLLEGE RALLARI

COORDINATOR,

Internal Quality Assurance Cell (IQAC), VEERASHAIVA COLLEGE, BELLARY-KARNATAKA.

#### Veerashaiya College, Bellary. Department of Computer Science BCA VI Semester FIRST Internal-Feb. 2018

Paper: Web Technology

I. Answer any FOUR of the following questions:

- 1. Explain the structure of XHTML in detail.
- 2. What is javascript? Explain different ways of creating Array Objects.
- 3. Define MIME. List the various contents types used by MIME.
- 4. What is CSS? Explain different types of selector forms?
- 5. Explain the following

(i)HTTP (ii)List Tags (iii)Web Servers

(iv)Frame tags

Dur: 1 H  $4 \times 5 = 20$ 

Vecrashaiva College, Bellary. Department of Computer Science BCA VI Semester FIRST Internal-Feb. 2018

Paper: Web Technology

I. Answer any FOUR of the following questions:

- 1. Explain the structure of XHTML in detail.
- 2. What is javascript? Explain different ways of creating Array Objects.
- 3. Define MIME. List the various contents types used by MIME.
- 4. What is CSS? Explain different types of selector forms?
- 5. Explain the following

(i)HTTP (ii)List Tags (iii)Web Servers

(iv)Frame tags

Veerashaiva College, Bellary. Department of Computer Science BCA VI Semester FIRST Internal-Feb. 2018

Paper: Web Technology

I. Answer any FOUR of the following questions:

Explain the structure of XHTML in detail.

- 2. What is javascript? Explain different ways of creating Array Objects.
- 3. Define MIME. List the various contents types used by MIME.
- 4. What is CSS? Explain different types of selector forms?
- 5. Explain the following

(i)HTTP (ii)List Tags (iii)Web Servers

(iv)Frame tags

Dur: 1 Hour  $4 \times 5 = 20$ 

Dur: 1 Hour

 $4 \times 5 = 20$ 

Internal Quality Assurance Cell (IQAC). VEERASHAIVA COLLEGE, BELLARY-KARNATAKA.

VEERASHAIVA COLLEGE BALLARI

## Vecrashaiya College, Ballari. Department of Computer Science

BCA VI Semester FIRST Internal - February, 2018

Paper: C#

L Answer any FOUR of the following questions:

1. Explain the role of NET Exception handling

2. Explain about building an Ad Hoc destruction method.

3. Explain the pillars of OOP in ell in detail.

4. What are generations in garbage collection? How to force garbage collection?

5. How to build cloneable objects?

Vecrashaiya College, Ballari. Department of Computer Science BCA VI Semester FIRST Internal - February. 2018

Paper: Cff

Dur: 1 Hour

 $4 \times 5 = 20$ 

I. Answer any FOUR of the following questions:

1. Explain the role of .NET Exception handling

2. Explain about building an Ad Hoc destruction method.

3. Explain the pillars of OOP in cff in detail.

4. What are generations in garbage collection? How to force garbage collection?

5. How to build cloneable objects?

Veerashaiva College, Ballari.
Department of Computer Science
BCA VI Semester FIRST Internal - February. 2018

Paper: C#

Dur: 1 Hour

 $4 \times 5 = 20$ 

I. Answer any POUR of the following questions:

1. Explain the role of .NET Exception handling

2. Explain about building an Ad Hoc destruction method.

3. Explain the pillars of OOP in c# in detail.

4. What are generations in garbage collection? How to force garbage collection?

5. How to build cloneable objects?

Veerashaiva College, Ballari.
Department of Computer Science
BCA VI Semester FIRST Internal - February. 2018

Paper: C#

Dur: 1 Hour

 $4 \times 5 = 20$ 

I. Answer any FOUR of the following questions:

1. Explain the role of .NET Exception handling

2. Explain about building an Ad Hoc destruction method.

3. Explain the pillars of OOP in ell in detail.

4. What are generations in garbage collection? How to force garbage collection?

5. How to build cloneable objects?

COORDINATOR,

VEERASWATVA COLLEGE,
BELLARY-KARNATAKA.

PRINCIPAL EERASHAIVA COLLEGE BALLARI

# Veerashaiva College, Ballari. Department of Computer Science

BCA IV Semester SECOND Internal-April. 2018

Paper: Additional English

Answer the following:

1. How does Socrates succeed in convincing people?

What is the final twist in the play 'Lithuania'?



Veerashaiva College, Ballari. Department of Computer Science

BCA IV Semester SECOND Internal-April. 2018

Paper: Additional English

Dur: 1 Hr 2x5=10

Answer the following:

How does Socrates succeed in convincing people?

2. What is the final twist in the play 'Lithuania'?

Veerashaiva College, Ballari.

Department of Computer Science

BCA IV Semester SECOND Internal-April. 2018

Paper: Additional English

Dur: 1 Hr

2x5=10

Answer the following:

1. How does Socrates succeed in convincing people?

2. What is the final twist in the play 'Lithuania'?

Veerashaiva College, Ballari.

Department of Computer Science

BCA IV Semester SECOND Internal-April. 2018

Paper: Additional English

Dur: 1 Hr

Answer the following:

2x5=10

1. How does Socrates succeed in convincing people?

2. What is the final twist in the play 'Lithuania'?

Veerashaiva College, Ballari.

Department of Computer Science

BCA IV Semester SECOND Internal-April. 2018

Paper: Additional English

Dur: 1 Hr

Answer the following:

2x5=10

1. How does Socrates succeed in convincing people?

2. What is the final twist in the play 'Lithuania'?

Internal Quality Assurance Cell (IQAC),

VEERASHAIVA COLLEGE, EFL'ARY-KARNATAKA. PRINCIPAL
VEERASHAIVA COLLEGE
BALLARI



#### Vv Sangha's

#### VEERASHAIVA COLLEGE

#### Department of Mathematics

SUB:-DSC2: Algebra and Calculus (2.1) Theory

Maximum marks=20

Time: 1hour

B.sc 2nd semester: First internal

Date: 12/07/2023

# I )Answer any Four of the following

14"5=201

1) Evaluate  $\int_c (3x + y)dx + (2y - x)dy$  along the curve  $y = x^2 + 1$  from (0, 1) to (3, 10).

2) Solve  $\int_0^2 \int_1^2 xy(1+x+y)dx dy$ 

3) Solve  $\int_0^1 \int_0^3 \int_{x^2}^{\sqrt{x}} (x+y+z) dy \ dz \ dx$ 

4) Evaluate  $\int_C (3x - 2y)dx + (y + 2z)dy - x^2dz$  Where C is the curve defined by x=t,  $y=2t^2$ ,  $z=3t^3$  and  $t \in [0,1]$ .

5) Evaluate line integral  $\int x^2y^2ds$  around the circle  $x^2+y^2=1$ 

6) Solve  $\int_{0}^{b} \int_{\frac{x^{2}}{b}}^{2b-x} xy \, dy \, dx$ 

COORDINATOR,
Internal Quality Assurance Cell (IQAC),
VERASHAIVA COLLEGE,
BELLARY-KARNATAKA.

PRINCIPAL
VEERASHAIVA COLLEGE
BALLARI

#### Vv SANGHA'S

# VEERASHAIVA COLLEGE

# DEPARTMENT OF MATHEMATICS

# SUBE-TRIGNOMETRY AND TOPOLOGICAL SPACES

B. Sc 6th SEMESTER: FIRST INTERNAL

TIME: 1 HOUR

TOTAL MARKS=30

DATE: 14/07/2023

# 1) Answer any FIVE of the following

[5\*6=30]

- 1) Expand  $\cos 8\theta$  in terms of powers of  $\sin \theta$  and  $\cos \theta$
- 2) Separate into real and imaginary parts of following
  - a) Sin(x+iy)
- b) sin(x+iy)
- c) Cosh(x+iy)
- 3) If sin(A+iB) = x+iy, Prove that

$$i) \ \frac{x^2}{\cosh B^2} + \frac{y^2}{\sinh B^2} = 1$$

- ii)  $x^2 \operatorname{Cosec}^2 \Lambda y^2 \operatorname{Sec}^2 \Lambda = 1$
- 4) Show that :  $i \log \frac{(x-l)}{(x+l)} = \pi 2 \tan^{-1} x$
- 5) Find the Principle and General value of

$$b)\log(-i)$$

- 6) Prove that the following
  - i)  $\sinh(x y) = \sinh x \cosh y \cosh x \sinh y$

ii) 
$$sinh(2x) = \frac{2 \tanh x}{1 - \tanh x^2}$$

7) Show that

 $\frac{\cos 7\theta}{\cos \theta} = 64 \cos \theta^6 - 112 \cos \theta^4 + 56 \cos \theta^2 - 7$ 

Quality Assurance Cell (IQAC)

BELLARY-KARNATAKA.

hurez.

PRINCIPAL
VEERASHAIVA COLLEGE

# Veerashaiva College, Ballari. Department of Computer Science

BCA III Semester SECOND Internal-October, 2017

Paper: Data Structures

I. Answer any FOUR of the following questions:

1. Explain in-order, pre-order and post-order in trees with an example.

2. Explain Quick Sort and Bubble Sort.

3. Explain Insertion sort and Radix Sort with an Algorithm.

4. What is Double Linked List (DLL)? How do you represent DLL? Explain Merge Sort. 5. What is a tree? Explain types of Trees in details.

Veerashaiva College, Ballari, Department of Computer Science

BCA III Semester SECOND Internal-October, 2017 Paper: Data Structures

1. Answer any FOUR of the following questions:

1. Explain in-order, pre-order and post-order in trees with an example.

2. Explain Quick Sort and Bubble Sort.

3. Explain Insertion sort and Radix Sort with an Algorithm.

4. What is Double Linked List (DLL)? How do you represent DLL? Explain Merge Sort.

5. What is a tree? Explain types of Trees in details.

Veerashaiva College, Ballari. Department of Computer Science BCA III Semester SECOND Internal-October. 2017

Paper: Data Structures

Dur: 1 Hour  $4 \times 5 = 20$ 

Dur: 1 Hour

 $4 \times 5 = 20$ 

A x 5 = 20

I. Answer any FOUR of the following questions:

1. Explain in-order, pre-order and post-order in trees with an example.

2. Explain Quick Sort and Bubble Sort.

3. Explain Insertion sort and Radix Sort with an Algorithm.

4. What is Double Linked List (DLL)? How do you represent DLL? Explain Merge Sort.

5. What is a tree? Explain types of Trees in details.

Veerashaiva College, Ballari. Department of Computer Science BCA III Semester SECOND Internal-October, 2017

Paper: Data Structures

Dur: 1 Hour  $4 \times 5 = 20$ 

I. Answer any FOUR of the following questions: 1. Explain in-order, pre-order and post-order in trees with an example.

2. Explain Quick Sort and Bubble Sort.

3. Explain Insertion sort and Radix Sort with an Algorithm. 4. What is Double Linked List (DLL)? How do you represent DLL? Explain Merge Sort.

5. What is a tree? Explain types of Trees in details.

Internal Quality Assurance Cell (IQAC), VEERASHAIVA COLLEGE, BELLARY-KARNATAKA.

PRINCIPAL VEERASHAIVA COLLEGE BALLARI