

Module-3

5 a. Evaluate
$$\int_{0}^{\infty} \int_{0}^{\infty} e^{-(x^2 + y^2)} dxdy$$
, by changing into polar coordinates. (06 Marks)
b. Find the volume of the tetrahedron bounded by the planes :
 $x = 0, y = 0, z = 0, \frac{x}{a} + \frac{y}{b} + \frac{z}{c} = 1.$ (07 Marks)
c. Prove that $\beta(m, n) = \frac{\Gamma(m)\Gamma(n)}{\Gamma(m+n)}$. (07 Marks)
6 a. Evaluate $\int_{0}^{1} \int_{x}^{\sqrt{x}} xy \, dy \, dx$ by change of order of integration. (06 Marks)
b. Evaluate $\int_{-10}^{1} \int_{x-z}^{x+z} (x + y + z) dy \, dx \, dz$. (07 Marks)
c. Prove that $\int_{0}^{\pi/2} \sqrt{\sin \theta}, d\theta \times \int_{0}^{\pi/3} \frac{1}{\sqrt{\sin \theta}}, d\theta = \pi$. (07 Marks)

Module-4

- 7 a. A body in air at 25°C cools from 100°C to 75°C in 1 minute, find the temperature of the body at the end of 3 minutes. (06 Marks)
 - b. Solve $\frac{dy}{dx} + \frac{y\cos x + \sin y + y}{\sin x + \cos y + x} = 0.$ (07 Marks)

c. Solve
$$xyp^2 - (x^2 + y^2)p + xy = 0$$
.

(07 Marks)

(06 Marks)

OR

8 a. Solve
$$\frac{dy}{dx} + y \tan x = y^2 \sec x$$
.

- b. Show that the family of parabolas $y^2 = 4a(x + a)$ is self orthogonal. (07 Marks)
- c. Find the general solution of the equation (px y)(py + x) = 0 by reducing into Clairaut's from, taking the substitution $X = x^2$, $Y = y^2$. (07 Marks)

2 of 3

Module-5

9 a. Find the rank of the matrix :

$$\mathbf{A} = \begin{bmatrix} 1 & 2 & -2 & 3 \\ 2 & 5 & -4 & 6 \\ -1 & -3 & 2 & -2 \\ 2 & 4 & -1 & 6 \end{bmatrix}.$$

- b. Solve the system of equations :
 - $\begin{array}{rl} 12x + & y + & z = 31 \\ 2x + 8y & z = 24 \\ 3x + 4y + 10z = 58 \end{array}$

By Gauss – Siedal method.

c. Diagonalize the matrix :

$$\mathbf{A} = \begin{bmatrix} -1 & 3 \\ -2 & 4 \end{bmatrix}.$$

(07 Marks)

(07 Marks)

(06 Marks)

OR

10 a. For what values of λ and M the system of equations :

$$x + 2y + 3z = 6$$

$$x + 3y + 5z = 9$$

$$2x + 5y + \lambda z = NX$$

has i) no solution ii) a unique solution iii) infinite number of solution. (07 Marks)b. Find the largest eigen value and the corresponding eigen vector of :

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

by Rayleigh's power method, use $\begin{bmatrix} 1 & 1 \end{bmatrix}^T$ as the initial eigen vector (carry out 6 iterations). (07 Marks)

c. Solve the system of equations :

$$\begin{array}{rrrr} x+&y+&z=9\\ 2x+&y-&z=0 \end{array}$$

$$2\mathbf{x} + 5\mathbf{y} + 7\mathbf{z} = 52$$

By Gauss elimination method.

(06 Marks)

* * * * *

3 of 3



Engineering Physics

Time: 3 hrs.

1

2

3

Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.

2. Physical constants : Velocity of light, $c = 3 \times 10^8 \text{ m/s}$ Planck's constant, $h = 6.63 \times 10^{-34} \text{ JS}$ Mass of electron, $m_e = 9.1 \times 10^{-31} \text{ kg}$ Charge of electron, $e = 1.6 \times 10^{-19} \text{ C}$ Boltzmann constant $= 1.38 \times 10^{-23} \text{ JK}^{-1}$ Avagadro number $= 6.02 \times 10^{23} \text{ /mol.}$

Module-1

a. What are shock waves? Mention the characteristics and applications of shock waves.

- (06 Marks)
- b. What are damped oscillations? Give the theory of damped oscillations and hence discuss the case of critical damping. (10 Marks)
- c. A free particle is executing simple harmonic motion in a straight line with a period of 25 seconds; 5 seconds after it has crossed the equilibrium point, the velocity is found to be 0.7 m/s. Find the displacement at the end of 10 seconds and also amplitude of oscillations.

(04 Marks)

OR

- a. Define SHM. Mention the characteristics of SHM. Give one example of SHM. (06 Marks)
 b. With a neat diagram, explain the construction and working of Reddy's shock tube. Mention
 - conservation of mass energy and momentum expressions. (10 Marks)
 c. A mass of 0.5kg causes on extension of 0.03m in a spring and the system is set for oscillations. Find i) The force constant for the spring ii) Angular frequency and iii) Time period of the resulting oscillation. (04 Marks)

Module-2

- a. State and explain Hooke's law. Define elastic and plastic limits. (06 Marks)
 b. Define Young's modulus of materials. Derive an expression for the Young's modulus of a beam using single cantilever method. (10 Marks)
 - c. Calculate the torque required to twist a wire of length 1.5m, radius 0.0425×10^{-2} m through an angle of ($\pi/45$) radians, if the value of rigidity modulus of the material is 8.3×10^{10} N/m².

(04 Marks)

OR

- 4 a. What is Bending moment? Mention various types of beams and their engineering applications (any four). (06 Marks)
 - b. What are the types of Elastic moduli? Derive a relation between Y, K and σ . (10 Marks)
 - c. Calculate the Force required to produce an extension of 1mm in steel wire of length 2m and diameter 1mm. ($Y = 2 \times 10^{11} \text{ N/m}^2$) (04 Marks)

1 of 2

42+8 = 50, will be treated as malpractice. Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Any revealing of identification, appeal to evaluator and /or equations written eg, d

18PHY12

Module-3

5

6 a.

- What is Numerical Aperture? Derive an expression for the same. (06 Marks) a. State and explain Maxwell's equation for electromagnetic field. Starting from Maxwell's b. (10 Marks) equations, deduce the wave equation for a plane wave in free space.
 - Determine constant C, such that $\vec{A} = (x + ay)\hat{a}_x + (y + bz)\hat{a}_y + (x + cz)\hat{a}_z$ is solenoidal. C.

(04 Marks)

Explain the types of fiber losses.

- State and explain Gauss Divergence theorem. Mention the Stoke's theorem. (10 Marks) b.
- The refractive indices of core and clad are 1.50 and 1.48 respectively in an optical fiber. C. (04 Marks) Find the numerical aperture and angle of acceptance.

Module-4

- Setup one dimensional time independent Schrödinger wave equation. (06 Marks) 7 a.
 - Mention the three modes of vibration in CO₂ molecule. With neat diagrams explain the b. (10 Marks) construction and working of CO2 laser.
 - c. A pulsed laser emits photons of wavelength 780nm with 20mW average power/pulse. Calculate the number of photons contained in each pulse if the pulse duration is 10ns. (04 Marks) Allena

OR

Prove that electron cannot exist inside the Nucleus of an atom. (06 Marks) 8 a. Derive an expression for energy density in terms of Einstein's coefficients. (10 Marks) b.

An electron is bound in a one dimensional potential well of width 1Å, but infinite wall height. Find its energy values in the ground state and in the first two excited states.

(04 Marks)

Module-5

- What are the assumptions of Quantum Free Electron Theory (QFET)? Explain the merits of 9 a. (06 Marks) OFET.
 - What is Hall Effect? Derive an expression for Hall voltage interms of Hall coefficient. b. (10 Marks)
 - c. Find the temperature of which there is 1% probability that a state with an energy 0.5eV (04 Marks) above the Fermi energy is occupied.

OR

What is polarization? Explain various types of polarizations mechanisms. (06 Marks) 10 a. What is Fermi Energy? Derive an expression for Fermi Energy at zero Kelvin for a metal. b.

(10 Marks)

The resistivity of intrinsic germanium at 27°C is equal to 0.47 ohm-m. Assuming the C. electron and hole mobilities as 0.38 and 0.18 m²/V-Sec respectively. Calculate the intrinsic (04 Marks) carrier density.

> * * * * 2 of 2

(06 Marks)

		CBCS SCHEME	
USN	1		18CPS13
		First Semester B.E. Degree Examination, Dec.2018/Jan.201	9
		C Programming for Problem Solving	
Tir	ne:	3 hrs. Max. M	farks: 100
		Note: Answer any FIVE full questions, choosing ONE full question from each module.	
		Module-1	
1	a. b	Explain the basic structure of a C program with example.	(10 Marks)
	с.	Write a C program to compute simple interest. Draw the flowchart for the same.	(04 Marks) (06 Marks)
2	a.	OR Define data type. Explain primitive data types supported by C language with evan	nnle
-		bernie data type. Explain primitive data types supported by C language with example	(10 Marks)
	b.	List all the operators used in C language and evaluate following expression.	
		i) $x = a - b/3 + c * 2 - 1$ when $a = 9, b = 12, c = 3$	
		ii) $10! = 10 \parallel 5 < 4 \& \& 8.$	(04 Marks)
	с.	Describe the various type computers.	(06 Marks)
		Module-2	
3	a.	Explain the formatted I/O functions of C language with syntax and example.	(04 Marks)
	b.	Write a C program to implement commercial calculator using switch statement.	(06 Marks)
	C.	white the syntax of different branching statements and explain their working.	(10 Marks)
		OR OR	
4	a.	Differentiate between while loop and do-while loop. Explain with syntax and exa	mple.
	b.	Write a program to find the sum of N natural numbers using for loop.	(08 Marks) (04 Marks)
	c.	Write a C program to plot Pascal's triangle.	(08 Marks)
		Module-3	
5	a.	Define array. Write the syntax for and with declaring and initializing 1D and 2D	array with
	h	suitable example. Write a C program to find the transpose of a give matrix	(10 Marks)
	υ.	The a C program to find the transpose of a give matrix.	(10 Marks)
		OR	
6	a.	Define string. List out all string manipulation function. Explain any two with example	mples.
	1.		(10 Marks)

b. Write a C program for [consider integer data] :i) Bubble sort ii) Linear search.

(10 Marks)

.

1 1

....

1 of 2

Module-4

7	0	What is a function? Explain the different type of functions based on parameter.	(10 Marks)
/	a.	What is a function to find the factorial of a given number using functions.	(14 Marks)
	b.	Write a program to find the factorial of a given number using concept of function	ns
	с.	Write a program to find GCD and LCM of two numbers using concept of function	(06 Marks)
			(00 1111113)
		OR	
			(10 Marks)
8	a.	Explain recursion and write a program to find in term of ribonated series.	
	b.	Give the scope and lifetime of following :	
		i) External variable ii) Static variable iii) Automatic variable	
		() Determine the second s	(10 Marks)
		iv) Static variable iv) Register variable.	
		Module-5	

What is a structure? Explain the syntax of structure declaration in C with example. (04 Marks) a. Write note on : i) Arrays within structures ii) arrays of structures. (04 Marks)

b. c. Implement structures to read, write and compute average marks and the students scoring (12 Marks) above and below average marks for class of N students.

OR

- What is a pointer? Show how pointer variable is declared and initialized. (05 Marks) 10 a. (05 Marks)
 - Explain any two preprocessor directives in C. b.

9

Write a C program to find sum and mean of all elements is an array using pointer. (10 Marks) c.





- 3 a. Show that voltage and current in pure resistive circuit are in phase and power consumed in the circuit is equal to product of rms voltage and current. The circuit is excited by the a.c. source.
 (06 Marks)
 - b. A resistance of 7 Ω is connected in series with a pure inductance of 31.8 mH and the circuit is connected to a 100 V, 50 Hz, sinusoidal supply. Calculate
 - (i) Circuit current (ii) Phase angle (iii) Power factor (iv) Power. (08 Marks)
 c. Two wattmeters are used to measure power in a 3-phase balanced load. The wattmeter readings are 8.2 kW and 7.5 kW. Calculate (i) Total power (ii) Power factor and (iii) Total reactive power. (06 Marks)

OR

- a. Deduce the relationship between the phase and the line voltages of a three phase star connected system. (06 Marks)
 - b. Three coils are connected in delta to a three phase, three wire, 400 V, 50 Hz supply and take a line current of 5 A at 0.8 p.f. lagging. Calculate the resistance and inductance of the coils. (06 Marks)
 - c. A coil having a resistance of 20Ω and inductance of 0.0382 H, is connected in parallel with a circuit consisting of a 150 μ F capacitor in series with 10 Ω resistor. The arrangement is connected to a 230 V, 50 Hz supply. Determine current in each branch. Also find total supply current. (08 Marks)

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

4

18ELE13

(06 Marks)

Module-3

- a. Explain the construction of a single phase transformer. 5
 - b. A 50 KVA single phase transformer has primary and secondary turns of 300 and 20 respectively. The primary winding is connected to a 2200 V, 50 Hz supply. Calculate (i) No load secondary voltage (ii) approximate values of the primary and secondary currents on full load (iii) Maximum value of flux density. (08 Marks)
 - With neat diagram, explain plate earthing. C.

OR

- Derive E.M.F equation of single phase transformer. 6 a. With neat circuit and truth table, explain three way control of lamp.
 - A 400 KVA transformer has a core loss of 2 kW and maximum efficiency at 0.8 p.f. occurs b. when the load is 240 kW. Calculate (i) The maximum efficiency at unity power factor. c. (08 Marks) (ii) the efficiency on full load at 0.71 power factor.

Module-4

- Draw a labeled diagram of the cross section of a d.c. generator. What are the essential 7 a. functions of the field coils, armature, commutator and brushes?
 - b. A four-pole armature of d.c. generator has 624 lap-connected conductors and is driven at 1200 rpm. Calculate the useful flux per pole required to generate an E.M.F of 250 V. (06 Marks)

c. A four pole motor is fed at 440 V and takes an armature current of 50 A. The resistance of the armature circuit is 0.28 ohm. The armature winding is wave-connected with 888 conductors and useful flux per pole is 0.023 wb. Calculate back emf and speed. (06 Marks)

OR

- a. Obtain from first principles an expression for torque developed in d.c. motor. (06 Marks) 8 (06 Marks)
 - b. Explain characteristics of d.c. shunt motor.
 - c. A shunt generator running at 500 rpm delivers 50 kW at 200 V. The armature and field resistances are 0.02 and 40 Ω respectively. Calculate generated E.M.F if brush drop of 1 V (08 Marks) per brush.

Module-5

- By means of a diagram, describe the main parts of synchronous generator with their 9 a. (08 Marks) functions.
 - b. The stator of a 3-phase, 8 pole, 750 rpm alternator has 72 slots, each of which contains 10 conductors. Calculate the rms value of the emf per phase if flux per pole is 0.1 wb sinusoidally distributed. Assume full pitch coils and winding distribution factor of 0.96. (06 Marks)
 - A 4-pole, 3300 V, 50 Hz induction motor runs at rated frequency and voltage. The frequency (06 Marks) of the rotor currents is 2.5 Hz. Find slip and running speed.

OR

a. Deduce an expression for the frequency of rotor current in an induction motor. (06 Marks) 10 b. A 4-pole, 3-phase induction motor operates from a supply whose frequency is 50 Hz.

- Calculate,
 - Synchronous speed. (i)
 - The speed of the rotor when the slip is 0.04. (ii)
 - The frequency of the rotor current when the slip is 0.03. (iii)

The frequency of the rotor current at standstill. (iv)

(08 Marks) (06 Marks)

- c. Derive e.m.f equation for synchronous generator.
 - * * * * * 2 of 2

(06 Marks) (06 Marks)



3

Module-2

200 mm

Δ

a. Define Free Body Diagram, with the help of at least two examples. What is the importance of drawing a F.B.D (Free Body Diagram) in Engineering Mechanics? (05 Marks)
b. What are the laws of dry friction? (05 Marks)

Fig.Q.2(c)

b. What are the laws of dry friction? (05 Marks)
 c. A mass of 580 kg resting on a rough inclined plane is acted upon by a 6000N force as shown in Fig.Q.3(c). If the coefficient of friction is 0.25 at point of contact, check whether the body slides up or down. (10 Marks)

18CIV14

(04 Marks)

(14 Marks)

- a. State and prove Lami's theorem. 4
 - Find the reactions developed at contact points A, B and C supporting two identical rollers b. (06 Marks) each of weight 1000N as shown in Fig.Q.4(b)



c. A ladder 4m long and weighing 200N is placed against a vertical wall and rests on a horizontal floor making an angle 60° with the floor. The coefficient of friction between ladder and floor is 0.3 and that between ladder and wall is 0.2. The ladder in addition to its own weight supports a person weighing 600N at a distance of 3m from the floor along the ladder. Calculate the minimum force 'P' to be applied horizontally at the floor level on the (10 Marks) ladder to keep it in equilibrium.

Module-3

Determine the support reactions in case of a simply supported beam shown in Fig.Q.5(a). 5 a. (06 Marks)

> JOKN-M R 4m 2:0m 2.0m Fig.Q.5(a)

b. Analyze the truss shown in Fig.Q5(b) to find member forces in member BC, CH and GH by (14 Marks) method of sections.



- Differentiate statically determinate and indeterminate structures with examples for each. 6 a. (06 Marks)
 - Determine member forces in the truss shown in Fig.Q.6(b). b.



18CIV14

(06 Marks)

Module-4

- 7 a. Derive the expression for centroid of a semi-circle from first principle. (06 Marks)
 - b. Determine the centroid of shaded area of composite shown in Fig.Q.7(b) with respect to origin 'O'. (14 Marks)



- 8 a. State and prove Parallel axis theorem.
 - b. Find radius of gyration of plane lamina about its horizontal centroidal axis shown in Fig.Q.8(b). (14 Marks)



Module-5

- 9 a. Two cars P and Q accelerates from a standing start. The acceleration of P is 1.3 m/s² and that of Q is 1.6 m/s². If Q was originally 6m behind P, how long it takes to overtake P? (10 Marks)
 - b. A stone 'A' is dropped from top of a tower 50m heigh. At the same time another stone 'B' is thrown up from the foot of the tower with the velocity of 25m/s. At what distance from top and after how much time the two stones will cross each other. (10 Marks)

OR

10 a. State D' Alembert's principle and write significance of it structural dynamics. (06 Marks)
b. A cricket ball is thrown by a fielder in the ground from a height of 3m at an angle of 40° with the horizontal. The velocity with which the ball is thrown is 30m/s. The ball hits the wicket at a height of 0.3m from ground. Determine the distance of the fielder from the wicket when the ball is thrown. (14 Marks)

3 of 3

18ELN14

First Semester B.E. Degree Examination, Dec.2018/Jan.2019 Basic Electronics

GBGS SGHEME

Time: 3 hrs.

USN

1

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- a. Explain the working of PN junction diode under forward and reverse biased conditions.
 - b. Explain how zener diode helps in voltage regulation with neat circuit diagram. (06 Marks)
 c. Explain with neat circuit diagram and waveforms the working of center-tap full wave
 - rectifier. Show that efficiency of full-wave rectifier is 81%. (08 Marks)

OR

- 2 a. Explain the operation of half-wave rectifier with capacitor filter with neat circuit diagram and waveforms. (06 Marks)
 - b. Show that the ripple factor of a half-wave rectifier is 1.21 and efficiency is 40.5%.
 - c. Explain VI characteristics of photodiode and its operation. (06 Marks) (04 Marks)
 - d. For the circuit shown in Fig.Q2(d) find (i) current and voltages in the circuit for $R_L = 450 \Omega$.



(04 Marks)

Module-2

- 3 a. Explain the drain and transfer characteristics of a JFET with neat circuit diagram. (08 Marks)
 b. Explain the basic structure and operation of JFET with neat diagrams. (08 Marks)
 - c. For a JFET $I_{DSS} = 9 \text{ mA and } V_{GS(off)} = -8 V_{(max)}$ determine drain current for $V_{GS} = -4V$.

(04 Marks)

(06 Marks)

OR

- a. Explain the operation of an enhancement MOSFET with neat circuit diagram. (06 Marks)
 b. Explain CMOS as an inverter with neat circuit diagram. Give its equivalent circuit and its advantages. (08 Marks)
 - c. Explain VI characteristics of SCR.

Module-3

a. Explain the block diagram of an operational amplifier. (06 Marks)
 b. Explain the operation of an op-amp as a non-inverting amplifier with neat diagram and waveforms. (06 Marks)
 c. Define the following terms with respect to op-amp.

(i) CMRR (ii) Slewrate (iii) μp offset voltage and current (iv) μp bias current

(08 Marks)

(06 Marks)

OR

6 a. Explain op-amp as a subtractor with neat circuit diagram. (08 Marks)

b. Explain the different µp modes of an op-amp.

4

5

For an op-amp circuit shown in Fig.Q6(c), find the output Vo1 and Vo2. C. LOOK



Also write the function of each op-amp used.

(06 Marks)

Module-4

- With neat circuit diagram explain how transistor is used as an voltage amplifier. Derive an 7 a. (08 Marks) equation for A_v .
 - b. Explain the voltage series feedback circuit and derive an equation for voltage gain A_v with (04 Marks) feedback. (08 Marks)
 - Explain RC phase-shift oscillator with circuit diagram and necessary equations. C.

OR

- With neat circuit diagram explain how transistor can be used to switch an LED ON/OFF and 8 a. (08 Marks) give the necessary equation.
 - The transistor in common emitter configuration is shown in Fig.Q8(b) with $R_c = 10 \text{ k}\Omega$ and b. $\beta_{DC} = 200$ determine (iii) $R_{B(max)}$ when $V_{in} = 5V$. (ii) $I_{B(min)}$ to saturate the collector current (i) V_{CE} at $V_{in} = 0$ (04 Marks) V_{CE(sat)} can be neglected.



Fig.Q8(b)

Explain the operation of IC-555 as an Astable oscillator with neat circuit diagram and C. (08 Marks) necessary equation.

Module-5

a. Design Full adder circuit and implement it using basic gates. (10 Marks) 9 b. Explain the basic elements of communication system with block diagram. (06 Marks) c. Find $(1010111011110101)_2 = (?)_{16}$ (ii) $(FA876)_{16} = (?)_2$ (04 Marks) (i)OR (04 Marks) State and prove De Morgan's theorems. 10 a. Explain the working of a 3-bit ripple counter with neat circuit diagram and timing diagrams. b. (08 Marks) Explain the working of RS flip flop with truth table and diagram. (06 Marks) C. Subtract the following using 2's complement: d. (02 Marks)

(i) 11100 - 10011

2 of 2

* * *



18ME15

Module-4 Write a note on application of ferrous and non-ferrous alloys. (06 Marks) Define composite material. State the advantages and applications of composite material. 7 a. (05 Marks) b. (09 Marks) Differentiate between Soldering, Brazing and Welding. C. OR (06 Marks) Differentiate between Open and Crossed belt drive. 8 a Enumerate the advantages and disadvantages of gear drive over belt drive. (06 Marks) b (08 Marks) Derive an equation for length of belt in open belt drive. C. Module-5 Explain the following operation on lathe with suitable sketches: 9 a (10 Marks) (iv) Thread cutting (iii) Facing (ii) Knurling (i) Turning b. Explain the following operation on milling machine with suitable sketches: (10 Marks) (i) Form milling (ii) Angular milling (iii) Gang milling OR (06 Marks) 10 a Differentiate between open loop and closed loop systems (04 Marks) Define robot. Write down industrial applications of robot. 6 (10 Marks) Explain the components of CNC with a block diagram. (c)



	a) Mal	b) All	c) non	d) un
2.	a) Wise	b) Self	c) Un	d) Re
3.	a) Wise	b) Vice	c) Nice	d) Un
4.	Affection	b) eat	c) ade	d) es
5.	Astroa) logo	b) logist	c) loger	d) ist
6.	Microa) alia	b) phone	c) scene	d) ship

Choose the appropriate Homophones of the following words: (Q.No.7 to Q.No.11)

7.	Ad : a) Had	b) Add	c) Odd	d) and
8.	Beet : a) Beat	b) Boat	c) Bate	d) Bird

Version-D : Page 1 of 8

0	Scana :			
9.	a) Seen	b) Rain	c) See	d) Saw
10.	Tea : a) Seen	b) Tee	c) rite	d) sow
11.	Right : a) Bright	b) Light	c) Rite	d) effect
	Choose the correct A	Antonym for the following	words (Q.No.12 to Q.No	0.16)
12	Interest ·		All and the set	
14.	a) uninterest	b) disinterest	c) non-interest	d) curious
13.	Blunt : a) dull	b) sharp	c) gloomy	d) wax
14.	Hostile : a) Innocent	b) Friendly	c) Lazy	d) Crazy
15.	Fresh : a) Stale	b) Stole	c) Steal	d) Steel
16.	Postpone :a) Prepone	b) Before	c) Advance	d) Soon
	Choose the correct s	ynonym for the following	words (Q.No.17 to Q.No	0.21)
17	Amuse ·			
1/.	a) Entertain	b) Enroll	c) engage	d) ended
18.	Tranquil :	b) storm	c) bold	d) loud
	.)			
19.	Darling :a) near	b) dear	c) close	d) full
20.	Event :	1. 77.21		
	a) Vain	b) Void	c) incident	a) vile
21.	Queer : a) curious	b) gain	c) deep	d) weary
	Select the appropria	ate Question Tag, to com	plete the following sen	tences: (Q.No.22 to
22.	Q.No.25) You are not serious:			
	a) are you?	b) had you?	c) were you?	d) aren't you?
		Version-D : Page	2 of 8	

23.	We can't buy this	costly car.		
	a) can't we?	b) can we?	c) could we?	d) shouldn't we?
24.	Give me a hint, a) will you?	b) won't you?	c) can you?	d) Do you?
25.	There are many be a) are there?	autiful lakes in Udaipur, b) weren't there?	c) aren't there?	d) isn't there?
26.	A spendthrift is de a) in, in	void $\{b) of, in}$ foresight and	often runs debt c) of, into	d) of, to
27.	Have you read the a) before	last one poem of t	the book? c) either	d) because
28.	He is wise a) though	he is young b) where	c) before	d) because
29.	You are my a) both, and	friend philosopher b) and, both	c) and, and	d) both, both
30.	How unv a) pooh!	vorthy of you! b) Hush!	c) Fie!	d) ouch!
31.	Much sinc a) has happened c) was happening	e they were last seen here	b) had happened d) would have happeni	ng
32.	He wait a) has been	ing for her since morning. b) have been	c) had	d) would
33.	I suggest that Prak a) would	ash walk on and the b) can	c) could	d) should
34.	Some checks a) also have	to be put on the mushroo b) has	oming of frivolous unions. c) will also	d) shall also
35.	He would not have a) had not	written this letter if he b) would have	heard the news. c) will have	d) shall had
36.	The police	arrested the thief		
	a) has	b) have	c) has been	d) will
37.	a) has The horse and carr a) is	b) have riage ready b) are	c) has been c) were	d) will d) have

1

Version-D : Page 3 of 8

9

8 1

39.	boys passed with distinction				
	a) full	b) little	c) a few	d) number	
40	It is hot	to drink			
40.	a) very	b) so much	c) Too	d) more	
41.	I complimented a) over	him his brilliant su	ccess in the examination c) to	d) on	
42	As Lapproached	him, he turned and w	alked away		
120.	a) to		b) by		
	c) beside		d) no preposition is ne	eded	
43.	uraniur	n, we can use another metal,	thorium to produce nuclea	rpower	
	a) Beside	b) Besides	c) Against	d) of	
44 .	all your	patent medicines, you haven	t cured me this cold	D ::1 C	
	a) of, of	b) of, from	c) with, of	d) with, from	
45	If you live	vour means you will run	debt		
101	a) above, in	b) beyond, into	c) beyond, in	d) in, on	
46.	do you	think has stolen the watch?			
	a) Who	b) Whom	c) Whose	d) All of these	
17	de veu	think I mat at the party?			
4 /.	a) Who	h) Whom	c) Whose	d) None of these	
	a) who	o) whom		d) None of these	
48.	This dress is	to that.			
	a) Preferable	b) More preferable	c) Most preferable	d) None of these	
49.	Our teacher has	read book of this lib	cary.	N	
	a) each	b) every	c) little	d) small	
50	The plural form	of the compound noun 'Son-	in-law' is		
50.	a) Son-in-laws	b) Sons-in-law	c) Sons-in-laws	d) Son-in-law	
51.	Which of the fol	lowing Nouns is generally us	sed as plural form?		
	a) Economics	b) Furniture's	c) Public	d) News	
52.	The meaning of	the Noun 'Advices' is		N A I I	
	a) Counsel	b) Opinion	c) Information	d) Advise	
53	Vou and Ahmed	have wasted time			
55.	a) they	h) your	c) vours	d) him	
	uj tite j	0) jour	e) jours	w) 11111	
54.	The Abstract not	un of the verb 'Go' is			
	a) Goit	b) Glutton	c) Gone	d) Go	

Version-D : Page 4 of 8

55.	"Our blessings come a) Noun	from <u>above</u> " b) Pronoun	c) Verb	d) Adverb
56.	"The stars are shining a) Noun	g <u>above</u> in the sky" b) Pronoun	c) Adverb	d) Adjective
57.	"None <u>but</u> the brave c a) Preposition	leserve the best" b) Noun	c) Conjunction	d) Verb
58.	"She tried hard <u>but</u> di a) Noun	d not succeed". b) Conjunction	c) Adverb	d) Preposition
59.	Ask <u>either</u> of them to a) Verb	leave b) Adverb	c) Pronoun	d) Adjective
60.	I believe in human 'ge a) Abstract Noun	b) Proper Noun	c) Common Noun	d) Collective Noun
61.	Which of these is a co a) Swimming	mmunication skill? b) Running	c) Sleeping	d) Asking Questions
62.	Which of these is an i a) Lack of knowledge	ntrapersonal communicati b) Reading	ion barrier? c) Listening	d) Writing
63.	Which of the followin a) elongated pronuncia c) forceful release of a	g is called an Aspiration? ation iir	b) actual sound d) sound	
64.	In business, oral comm a) in some situation c) in all but one situation	nunication is face-to-face	b) in no situationd) in all situation	
6 5 .	Which of the followin a) Reading	g skills has the largest sha b) Listening	re in communication time c) Writing	e in schools/colleges? d) Speaking
66.	In general, the oral correceiver.	mmunication is the inter	rchange of betwee	en the sender and the
	a) cues and clues	b) written messages	c) signs and gestures	d) verbal messages
67.	Comparatively, oral co a) Providing opportuni c) Saving time	ommunication is better that ity to refer back	an written communication b) Conveying feelings a d) Conveying facts and d	in nd emotions opinions
68.	Which of the following a) Language	g is a Interpersonal Comm b) Listening	nunication barrier? c) Reading	d) Writing

Choose the correct parts of speech of the underlined words: (Q.No.55 to Q.No.60)

* 11

u p

Version-D : Page 5 of 8

1 0

*

.

.

69.	Body language is also a) Noise	known as b) Overflow	c) Leakage	d) Verbal
70.	Which of these is not a) Swimming	a communication skill? b) Asking question	c) Writing	d) Body language
71.	Which of the followin a) art	g has / a:/ sound b) eat	c) date	d) get
72.	Which of the followin a) Fact	g has /i:/ sound b) eat	c) wit	d) few
73.	Which of the followin	g has P sound		
	a) but	b) pat	c) wit	d) get
74.	Which of the followin a) vocal	g is an adjective form of "V b) verbal	VORD" c) oral	d) word
75.	The adjective form of a) Attend	the noun "Attendance" is b) Attentive	c) Attendant	d) Presence
76.	The pronunciation of a) thee	definite article "The", befor b) th-uh	e a vowel is c) th-hu	d) th-eh
77.	The baker prepared so a) a noun	ome 'eats' for Christmas. He b) a pronoun	ere the word 'eats' is c) a verb	d) an adverb
78.	They have reached the a) on	e place time b) in	c) at	d) over
79.	The of an earth a) Reason	nquake is the movement of t b) Cause	ectonic platos c) Habit	d) Wind
80.	One who knows man a) Linguist	y languages is called b) Emigrant	c) Omnipotent	d) Fotalist
81.	A person walking and a) Patriot	I not using a vehicle is calle b) Pessimist	d c) Pedestrain	d) Usurer
82.	One who looks at the a) Pessimist	dark side of things b) Optimist	c) Omniscient	d) Omnipotent
	Select the name of t	he collective Noun of the fo	ollowing: (Q.No.83 to Q	No.85)

83. A of ants b) swarm c) council d) fleet

Version-D : Page 6 of 8

84.	A of ships			
	a) fleet	b) posy	c) crew	d) bunch
85.	A of Elephan a) Stack	nts b) Herd	c) mob	d) gang
	Choose the correct	pair of words from the gi	ven options (Q.No.86 to	Q.No.90)
86.	Accept: a) Expect	b) Except	c) Eccept	d) Excess
87.	Fain: a) Fine	b) Fane	c) Feign	d) Fan
88.	Naughty: a) knotty	b) notty	c) note	d) notice
89.	Dissent:a) Decent	b) Descent	c) Dissect	d) Decence
90.	In: a) Hen	b) Inn	c) Him	d) Hymn
	Choose the correct	spelling words which are	commonly mis-spelt : (Q	P.No. 91 to Q.No.95)
91.	a) Advisable	b) Adviesable	c) Advisible	d) Adviseable
92.	a) Admission	b) Addmission	c) Admision	d) Admissione
93.	a) Adress	b) Address	c) Adres	d) Addres
94.	a) appiarance	b) appearence	c) apparance	d) appearance
95.	a) Committment	b) Comittment	c) Commitment	d) Commitmment
	Select the missing (Q.No.96 to Q.No.10	silent letter/s from the ()0)	options given. Check tl	e spelling carefully
96.	a) h	b) b	c) k	d) c
97.	Com			

0 0

9 p

Version-D : Page 7 of 8

c) e

d) b

b) f

a) d

6



. .