

18 Scheme

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

# 18MAT11

OR  
6 a. Evaluate 
$$\int_{x=0}^{x} \int_{-\infty}^{b} \int_{-\infty}^{b} (x^2 + y^2 + z^2) dz.dy.dx$$
 (06 Marks)  
b. Find the area bounded by the ellipse  $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$  by double integration. (07 Marks)  
c. Show that  $\int_{0}^{\pi/2} \frac{d\theta}{\sqrt{\sin \theta}} \times \int_{0}^{\pi/2} \sqrt{\sin \theta}.d\theta = \pi$  (07 Marks)  
**Module-4**  
7 a. Solve  $(1 + e^{x/y}) dx + e^{x/y} \left(1 - \frac{x}{y}\right) dy = 0$  (06 Marks)  
b. If the air is maintained at 30°C and the temperature of the body cools from 80°C to 60°C in  
12 minutes. Find the temperature of the body after 24 minutes. (07 Marks)  
c. Solve  $yp^2 + (x - y)p - x \equiv 0$ . (07 Marks)  
c. Solve  $yp^2 + (x - y)p - x \equiv 0$ . (07 Marks)  
b. Find the orthogonal trajectory of the family of the curves  $r^n \cdot cosn\theta = a^n$ , where a is a  
parameter. (06 Marks)  
b. Find the orthogonal trajectory of the family of the curves  $r^n \cdot cosn\theta = a^n$ , where a is a  
parameter. (07 Marks)  
c. Solve the equation  $(px - y) \cdot (py + x) = 2p$  by reducing into Clairaut's form taking the  
substitution  $X = x^n$ ,  $Y = y^2$ . (07 Marks)  
6 a. Find the rank of the matrix  
 $A = \begin{pmatrix} 1 & 2 & -2 & 3 \\ 2 & 5 & -4 & 6 \\ -1 & -3 & 2 & -2 \\ 2 & 4 & -1 & 6 \end{pmatrix}$  by applying elementary Row transformations. (06 Marks)  
b. Solve the following system of equations by Gauss-Jordan method:  
 $x + y + z = 9$ ,  $2x + y = z = 0$ ,  $2x + 5y + 7z = 52$  (07 Marks)  
c. Using Rayleigh's power method find the largest eigen value and corresponding eigen vector  
of the matrix  $A = \begin{pmatrix} 2 & 0 & 1 \\ 0 & 2 & 0 \\ 1 & 0 & 2 \end{pmatrix}$  with  $X^{(0)} = (1, 0, 0)^T$  as the initial eigen vector carry out  
5 iterations. (07 Marks)  
**OR**  
10 a. For what values of  $\lambda$  and  $\mu$  the system of equations.  
 $x + y + z = 6$ ,  $x + 2y + 3z = 10$ ,  $x + 2y + \lambda z = \mu$  may have  
i) Unique solution (10 Infinite number of solutions iii) No solution. (06 Marks)

- b. Reduce the matrix  $A = \begin{pmatrix} -1 & 3 \\ -2 & 4 \end{pmatrix}$  into diagonal form. (07 Marks)
- c. Solve the following system of equations by Gauss-Seidel method 20x + y - 2z = 17, 3x + 20y - z = -18, 2x - 3y + 20z = 25. Carry out 3 iterations. (07 Marks)

		GBCS SCHEME
<u>USN</u>		18CHE1
		First Semester B.F. Degree Examination, Dec 2018/Jan 2019
		Engineering Chemistry
Tin	ne: 3	3 hrs. Max. Marks: 100
	N	ote: Answer any FIVE full questions, choosing ONE full question from each module.
		Module-1
1	a. b.	Define terms : (i) Free energy (ii) Entropy (iii) Cell potential. (06 Marks For the cell, Fe   $Fe^{2+}(0.01M) \parallel Ag^+(0.1M) \mid Ag$ , write the cell reaction and calculate the e.m.f of cell at 298 K, if standard potentials of Fe and Ag electrodes are – 0.44 V and +0.87 respectively. (07 Marks What are Secondary Batteries? Explain the construction and working of Nickel met
	0.	hydride (Ni - MH) battery. Mention its applications. (07 Marks)
2	a. b.	ORDefine Primary, Secondary and Reserve batteries with examples.(06 MarksWhat are concentration cells? The cell potential of copper concentration ceCu   CuSO4 (0.005M)    CuSO4 (X)   Cu is 0.0295 V at 25°C. Calculate the value of X.
	с.	Explain the construction and working of glass electrode giving its application i determination of pH of solution. (08 Marks Module-2
3	a.	Define corrosion. Describe the electrochemical theory of corrosion taking rusting of iron a
	h	an example. (07 Marks
	о. с.	What is electroless plating? Explain electroless plating of Nickel. (07 Marks)
4	a.	What is meant by metal finishing? Mention (any five) technological importance of meta
	b.	finishing. (06 Marks Explain the process of (i) Galvanizing (ii) Anodising of Al. (07 Marks
	C.	What is electroplating? Explain electroplating of chromium. Mention why chromium cannot be used as anode. (07 Marks)
		Module-3
5	a.	Define calorific value of fuel. Explain the experimental determination of calorific value of solid / liquid fuel using Bomb calorimeter. (08 Mark
	b.	What are fuel cells? Describe the construction and working of Solid Oxide Fuel Ce (SOFC). (06 Mark
	C.	What are Solar cells? Explain the construction and working of photovoltaic (PV) cell.

(06 Marks)

(07 Marks)

(06 Marks)

# OR

- Explain the preparation of solar grade Silicon by Union Carbide process. 6 a.
  - Write a note on (i) Power alcohol (ii) Unleaded petrol. b.
  - 0.75 g of coal sample (Carbon 90%,  $H_2$  5% and ash 5%) was subjected to combustion in c. Bomb calorimeter. Mass of water taken in calorimeter was 2.5 kg and the water equivalent of calorimeter is 0.65 kg. The rise in temperature was found to be 3.2°C. Calculate higher and lower calorific values of the sample. Latent heat of steam = 2457 kJ/kg and specific heat (07 Marks) of water =  $4.187 \text{ kJ/kg/}^{\circ}\text{C}$ .

# Module-4

- What are the causes, effects and disposal methods of e-waste? 7 a. What are the sources, effects and control of lead pollution? (Pb pollution). (07 Marks) b. In a COD test, 30.2 cm<sup>3</sup> and 14.5 cm<sup>3</sup> of 0.05 N FAS solutions are required for a Blank and c. Sample titration respectively. The volume test sample used was 25 cm<sup>3</sup>. Calculate the COD (06 Marks) of the sample solution. OR Explain the sources, effects and control of oxides of nitrogen. (07 Marks) 8 a. (07 Marks)
  - Explain softening of water by ion exchange method. b. (06 Marks) Explain the Activated sludge treatment of sewage water. c.

# Module-5

#### Explain the theory, instrumentation and application of Atomic absorption spectroscopy. 9 2

(07 Marks) Explain the theory and instrumentation of potentiometry. (07 Marks) b. (06 Marks) Write a note on Fullerene. Mention its application. C.

# OR

- What are Nanomaterials? Explain the synthesis of nanomaterials by precipitation method. 10 a.
  - (07 Marks) Explain the synthesis of Nano materials by Sol-Gel technique. (06 Marks) b. (07 Marks)
  - Explain the theory and instrumentation of conductometry.

2 of 2

(07 Marks)



# First/Second Semester B.E. Degree Examination, June/July 2019 Engineering Chemistry

GBCS SCHEME

Time: 3 hrs.

F = 96500 C.

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Max. Marks: 100

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

# Module-1

- a. What is single electrode potential? Derive Nernst's equation for single electrode potential.
  - b. What are batteries? Demonstrate the construction and working of Ni-MH battery, mention its applications. (07 Marks)
  - c. What voltage will be generated by a cell that consists of an iron electrode immersed in 0.5M FeSO4 solution and a copper electrode immersed in 1M CuSO4 solution at 298 K. Given  $E_{Fe}^{\circ} = -44 \text{ V}$  and  $E_{Cu}^{\circ} = 0.34 \text{ V}$ . Write the cell representation and cell reactions. (07 Marks)

#### OR

- 2 a. What is Battery? Explain primary and secondary with examples. (06 Marks)
  - b. Describe the construction and working of Li-ion battery. Mention its applications. (07 Marks)
    c. What are concentration cells? Emf of the cell Cd | CdSO<sub>4</sub> (XM) | | CdSO<sub>4</sub> (0.025M) | Cd at 28°C is 0.035 V. Find the concentration of CdSO4 at anode. Given R = 8.314 J/K/mol.

(07 Marks)

(06 Marks)

# Module-2

#### OR

- a. Explain the factors affecting the rate of corrosion:
  i) Nature of corrosion product
  ii) Ratio of anodic to cathodic areas
  (06 Marks)
  - b. What is meant by metal finishing? Highlight any five technological importance of metal finishing. (07 Marks)
  - c. What is electroplating? Discuss the electroplating of chromium. (07 Marks)

# Module-3

- 5 a. What are fuel cells? Describe the construction and working of Methanol-Oxygen fuel cell. (06 Marks)
  - Describe the experimental determination of calorific value of solid fuel using Bomb Calorimeter. (07 Marks)
  - c. 0.95 g of coal sample (C = 93%;  $H_2 = 6\%$  and ash 1%) was subjected to combustion in Bomb calorimeter. Mass of water taken in the calorimeter was 2.6 kg and the water equivalent of calorimeter was 0.75 kg. The rise in temperature was found to be 3.2°C. Calculate the gross and net calorific values of the sample. Latent heat of steam = 2457 kJ/kg/°C and S = 4.187kJ/kg/°C. (07 Marks)

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3

4

# 18CHE12/22

(06 Marks)

(07 Marks)

# OR

- Explain the preparation of solar grade silicon by union-carbide process. 6 (06 Marks) a.
  - What are pv-cells? Illustrate the construction and working of a typical pv-cell. (07 Marks) b.
  - What is knocking? Explain the mechanisms of knocking. Mention its ill effects. (07 Marks) c.

# Module-4

- Outline the softening of water by ion-exchange method. 7 a
  - What are the sources, effects and control of lead pollution? b.
  - Define COD. In a COD test, 30.6 cm<sup>3</sup> and 15.5 cm<sup>3</sup> of 0.05N FAS solution are required for с. blank and sample titration respectively. The volume of the test sample used was 25 cm<sup>3</sup>. Solve the COD of the water sample solution. (07 Marks)

# OR

8	a.	What is Desalination? Describe the process of reverse osmosis of water.	(06 Marks)
	b.	What is boiler corrosion? Explain the boiler corrosion with $CO_2$ , $O_2$ and $MgCl_2$ .	(07 Marks)
	c.	Define COD. Illustrate the determination of COD of waste water sample.	(07 Marks)
		Module-5	

9	a.	Describe the synthesis of nano-material by sol-gel technique.	(06 Marks)
	b.	Discuss the theory and instrumentation of conductometry.	(07 Marks)
	с.	Outline the theory, instrumentation and applications of colorimetry.	(07 Marks)

# OR

- Explain size dependent properties of nano material: 10 a.
  - i) Surface area
  - ii) Electrical
  - iii) Optical properties

(06 Marks)

- Write a note on fullerenes. Mention its properties and applications. (07 Marks) b.
- c. What are nanomaterials? Explain the synthesis of nanomaterial by chemical vapour deposition method. (07 Marks)



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1

# First/Second Semester B.E. Degree Examination, June/July 2019 Engineering Physics

Time: 3 hrs.

Max. Marks: 100

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

# Module-1

- a. Define SHM and mention any two examples. Derive the differential equation for SHM using Hooke's law. (07 Marks)
  - b. With a neat diagram, explain the construction and working of Reddy's tube. Mention any three applications of shock waves. (09 Marks)
  - c. For a particle executing SHM, its acceleration is found to be 15cm/s<sup>2</sup> when it is at 3cm from its mean position. Calculate time period. (04 Marks)

# OR

- 2 a. Explain the basics of conservation of mass, momentum and energy.
  - b. What are forced oscillations? Derive the expressions for steady state amplitude and phase angle in case of forced oscillations. (10 Marks)
  - c. A 20g oscillator with natural angular frequency 10 rads<sup>-1</sup> is vibrating in damping medium. The damping force is proportional to the velocity of the vibrator. Calculate the value of damping required for the oscillations to be critically damped. (Given damping coefficient is 0.17).

#### Module-2

- 3 a. State and explain Hooke's law. Explain the nature of elasticity with the help of stress-strain diagram. (08 Marks)
  - b. Define bending moment. Derive the expression for bending moment interms of moment of inertia.
     (08 Marks)
  - c. Calculate the torque required to twist a wire of length 1.5m, radius  $0.0425 \times 10^{-2}$ m, through an angle  $\left(\frac{\pi}{15}\right)$  radian, if the value of rigidity modulus of its material is  $8.3 \times 10^{10}$  N/m<sup>2</sup>.

(04 Marks)

(08 Marks)

(06 Marks)

# OR

- 4 a. Define Poisson's ratio. Obtain the relation between y, n and σ where the symbols have their usual meaning.
   (08 Marks)
  - b. What are Torsional Oscillations? Mention any two applications of Torsional Pendulum. Derive the expression for couple per unit twist of a solid cylinder. (08 Marks)
  - c. Calculate the force required to produce an extension of 1mm in steel wire of length 2m and diameter 1mm (Young's modulus for steel  $Y = 2 \times 10^{11} \text{ N/m}^2$ ). (04 Marks)

# Module-3

- 5 a. State and prove Gauss Divergence Theorem.
  - b. Define fractional Index change (Δ). Derive the expression for Numerical aperature and acceptance angle of an optical fiber. (08 Marks)

c. A circular coil of radius 10cm having 50 turns carries a current of 5A. Determine the magnetic field produced by the coil at a distance of 3cm from the centre. Also determine magnetic field produced by the coil at its centre. (04 Marks)

## OR

- 6 a. Derive wave equation in terms of electric field using Maxwell's equations for free space. (08 Marks)
  - b. Describe different types of optical fibers with neat diagrams. Mention any two mechanisms involved in fiber loss. (08 Marks)
  - c. Calculate the V-number for a fiber of core-diameter 40µm and with refractive indices of 1.55 and 1.5 respectively for core and cladding. When the wavelength of the propagating wave is 1400nm. Also calculate the number of modes that the fiber can support for propagation. Assume that the fiber is in air. (04 Marks)

## Module-4

- 7 a. Starting from Schrodinger's time independent wave equation, derive the expression for energy eigen value and eigen function for an electron in one dimensional potential well of infinite height. (10 Marks)
  - b. Explain the construction and working of  $CO_2$  LASER with the help of energy level diagram. (06 Marks)
  - c. The average output power of laser source emitting a laser beam of wavelength 632.8nm. Find the number of photons emitted per second by the laser source. (04 Marks)

#### OR

- 8 a. Define the terms population inversion and meta-stable state. Derive the expression for energy density of radiation at equilibrium interms of Einstein's coefficients. (10 Marks)
  - b. Using Heisenberg's uncertainty principle, show that electrons do not reside inside the nucleus. (06 Marks)
  - c. An electron is bound in an 1-D potential well of infinite height and of width 1 A. Calculate its energy values in the ground state and also in the first two excited states. (04 Marks)

# Module-5

- 9 a. Define Fermi energy. Explain the variation of Fermi factor with temperature. (08 Marks)
  - b. What is Hall effect? Obtain the expression for Hall coefficient, and express Hall voltage interms of Hall coefficient. (08 Marks)
  - c. The dielectric constant of sulphur is 3.4. Assuming a cubic lattice for its structure, calculate the electronic polarizability of sulphur (given, density of sulphur = 2.07 g/cc and atomic weight = 32.07). (04 Marks)

# OR

- 10 a. Mention the assumptions of Quantum free electron theory. Discuss two success of quantum free electron theory. (08 Marks)
  - b. Define the term internal field in case of solid dielectrics with one-dimensional equation.
     Explain polar and non-polar dielectrics with examples. (08 Marks)
  - c. The intrinsic charge carrier concentration of germanium is  $2.4 \times 10^{19}$ /m<sup>3</sup>, calculate its resistivity if mobility of electrons and holes respectively are 0.39m<sup>2</sup>/vs and 0.19m<sup>2</sup>/vs.

(04 Marks)



# OR

- 6 a. Define string. List out all string manipulation function. Explain any two with examples.
  - b. Write a C program for [consider integer data] :i) Bubble sort ii) Linear search.

(10 Marks)

(10 Marks)

1 of 2

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.

# Module-4

- What is a function? Explain the different type of functions based on parameter. (10 Marks) 7 a.
  - Write a program to find the factorial of a given number using functions. (14 Marks) b.
  - Write a program to find GCD and LCM of two numbers using concept of functions. c.

(06 Marks)

# OR

- Explain recursion and write a program to find n<sup>th</sup> term of Fibonacci series. (10 Marks) 8 a. Give the scope and lifetime of following : b. iii) Automatic variable ii) Static variable i) External variable
  - iv) Register variable. iv) Static variable

(10 Marks)

# Module-5

What is a structure? Explain the syntax of structure declaration in C with example. (04 Marks) 9 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 above and below average marks for class of N students. (12 Marks)

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

		GBCS SCHEME	
USN		1	8CPS13/23
	ł	First/Second Semester B.E. Degree Examination, June/July C Programming for Problem Solving	2019
Tim	ne' î	3 hrs	Marlan 100
1 111	N	ote: Answer any FIVE full questions choosing ONE full question from each .	marks: 100
		Module-1	nouure.
1	a. b.	With a neat block diagram of computer, explain its components. Classify the following into input and output devices: Monitors, visual display unit, Track balls, Bar code reader, Digital camera, F	(10 Marks)
		Microfiche, OMR, Electronic Whiteboard, Plotters.	(05 Marks)
	C.	Define the terms: Network, LAN, WAN, MAN and network topology.	(05 Marks)
		OR	
2	а.	Write the basic structure of C program. Explain each section briefly with suitab	le example.
	b.	Define operator. Explain any 6 operators with suitable example.	(07 Marks)
	C.	State whether the following are valid identifiers or not: integer, float, I am, 123	_AbC. (04 Marks)
			(01111110)
3	a.	<u>Module-2</u> Define and write the classification of Input and Output statements in C. Write that prints the following output:	a C-program
		screen Student? Engineering	(06 Marks)
	b.	Define branching statements. Explain them with syntax and suitable example.	(10 Marks)
	C.	Evaluate: $i = 1$ L : if (i > 2)	
		print("Saturday"); $i = i + 1$	
		goto L;	
		} printf ("Sunday"); Explain your result briefly.	(04 Marks)
		OP	
4	a.	State the drawback of ladder if-else. Explain how do you resolve with suitable e	example. (08 Marks)
	b.	Write a C program to get the triangle of numbers as a result: 1 1 2 1 2 3	
	C	1 2 3 4 Write a C program to check whether given number is prime or not	(06 Marks)
	ς.	1 of 2	(uo marks)
		1 01 2	

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# Module-3

- 5 a. Define an array. Explain with suitable example how do you declare and initialize 1D array. (10 Marks)
  - b. Write a C program to search an element using linear and binary techniques. (10 Marks)

# OR

6 a. Define a string. Explain any 4 string library functions with syntax and example. (10 Marks)
 b. Write a C program to copy a string (combination of digits and alphabets) to another string (only alphabets). (10 Marks)

# Module-4

7 a. Define a function. List and explain the categories of user defined functions. (10 Marks)
b. Write a C-program for evaluating the binomial coefficient using a function Factorial (n).

(10 Marks)

# OR

- 8 a. Define a recursion. Write a C recursive function for multiplying two integers where a function call is passed with two integers m and n. (10 Marks)
  - b. Differentiate: (i) User defined and built-in function (ii) Recursion and iteration (10 Marks)

#### Module-5

- 9 a. Define structures. Explain how do you declare, initialize and represent the memory for structure variable. (10 Marks)
  - b. Write a C program that accepts a structure variable as a parameters to a function from a function call. (10 Marks)

#### OR

- 10 a. Define pointers. Explain pass by value and pass by reference with C statements and an example. (10 Marks)
  - b. Define pre-processor directives. Write C program that finds the addition of two squared numbers, by defining macro for Square (x). (10 Marks)





value of: (i) the sum (ii) the difference of these voltages. (08 Marks)

For the network shown in Fig. Q2, calculate the power consumed by each resistor. (06 Marks) C.

452 852 TI Fig. Q2 Module-2

- Show that voltage and current in pure resistive circuit are in phase and power consumed in 3 a. 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  $\Omega$  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) Two wattmeters are used to measure power in a 3-phase balanced load. The wattmeter С. readings are 8.2 kW and 7.5 kW. Calculate (i) Total power (ii) Power factor and (iii) Total reactive power. (06 Marks)

## OR

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

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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.

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# First Semester B.E. Degree Examination, Dec.2018/Jan.2019 **Basic Electrical Engineering**

GBGS SGHEME

Time: 3 hrs.

**18ELE13** 

# **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. (ii) approximate values of the primary and Calculate (i) No load secondary voltage secondary currents on full load (iii) Maximum value of flux density. (06 Marks) (08 Marks)
    - With neat diagram, explain plate earthing. C.

# OR

- a. Derive E.M.F equation of single phase transformer. 6
  - b. With neat circuit and truth table, explain three way control of lamp.
    - c. A 400 KVA transformer has a core loss of 2 kW and maximum efficiency at 0.8 p.f. occurs when the load is 240 kW. Calculate (i) The maximum efficiency at unity power factor. (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. (08 Marks) 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  $\Omega$  respectively. Calculate generated E.M.F if brush drop of 1 V (08 Marks) per brush.

# Module-5

- a. By means of a diagram, describe the main parts of synchronous generator with their 9 (08 Marks) functions.
  - The stator of a 3-phase, 8 pole, 750 rpm alternator has 72 slots, each of which contains 10 b. 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)

c. 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

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- A 4-pole, 3-phase induction motor operates from a supply whose frequency is 50 Hz. b. 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)
  - c. Derive e.m.f equation for synchronous generator.

(08 Marks)

(06 Marks)

(06 Marks)

(06 Marks)

First/Second Semester B.E. Degree Examination, June/July 2019 Basic Electrical Engineering

Time: 3 hrs.

**USN** 

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

# Module-1

- a. State and explain Kirchoff's laws.
- b. Define form factor and peak factor. Obtain their values for a sinusoid voltage. (06 Marks)
- c. A circuit consists of two parallel resistors having resistances of  $20\Omega$  and  $30\Omega$  respectively connected in series with a  $15\Omega$  resistor. If current through  $15\Omega$  resistor is 3A, find,
  - i) Current through the branches.
  - ii) Voltage across whole circuit
  - iii) Power consumed by  $20\Omega$  and  $15\Omega$  resistors.

# OR

- 2 a. Define average and rms value of a sinusoid. Also derive the respective expressions.
  - b. Find the potential difference between XY for the network shown below Fig.Q2(b). (06 Marks)



c. State Ohm's Law. Mention its limitations.

(06 Marks)

# Module-2

- a. Obtain the behaviour of voltage, current and power in a pure inductor. Connected to single phase ac supply. (08 Marks)
  - b. Show that, 3φ power can be measured using only two wattmeters for a balanced star connected load. (06 Marks)
  - c. A 3φ load of 3 equal impedances are connected in delta across a balanced 400V, 50Hz, 3 φ supply which takes a line current of 10A at a power factor of 0.7 lagging. Calculate: i) Phase current ii) Total power in W iii) Power in VA iv) Power in VAR. (06 Marks)

## OR

- a. Obtain expressions for line and phase relationship of voltage, current and power in a 3φ star connected system.
   (08 Marks)
  - b. An alternating voltage of (160 + j120)V is applied to a circuit and the current is given by (6 + j8)A. Find the values of circuit elements by assuming f = 50Hz. Calculate the power factor of the circuit and power consumed by the circuit. (06 Marks)
  - c. A balanced  $3\phi$  star connected system draws power from 440V supply. The two Wattmeters connected indicate  $W_1 = 5kW$  and  $W_2 = 1.2kW$ . Calculate power, power factor and current in the circuit. (06 Marks)

1 of 2

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

3

4



18ELE13/23

Max. Marks: 100

(08 Marks)

(06 Marks)

(08 Marks)

# Module-3

- Explain electrical shock, its causes and precautions to be taken to prevent them. (08 Marks) 5 a. (06 Marks)
  - Discuss about various types of losses in a transformer. b.
  - c. A 250KVA; 11,000/415 Volts, 50Hz, 1¢ transformer has 80 turns on the secondary. Calculate:
    - Rated primary and secondary currents i)
    - Number of primary turns ii)
    - Maximum value of flux in the core iii)
    - Voltage induced/turn on secondary. iv)

# OR

A 500kVA, 1¢ transformer has an efficiency of 92% at full load, upf and at half the full 6 a. (08 Marks) load, 0.9pf. Determine its efficiency at 80% of the full load and 0.95pf.

- Discuss about necessity of earthing, with a neat diagram explain pipe earthing. b.
- Write short notes on: i) Fuse ii) MCB. C.

machine if winding factor is 0.96.

# Module-4

With a neat sketch, explain construction of a DC machine. (08 Marks) 7 a.

- b. A 4 pole, 230V, DC series, wave connected armature with 1254 conductors, with flux per pole of 22mWb, takes 50A for motoring. The armature and series field coil resistances are  $0.3\Omega$  and  $0.2\Omega$  respectively. Calculate the speed and torque developed in Watts. (06 Marks) (06 Marks)
- Brief on characteristics of a DC shunt motor with neat diagrams. C.

# OR

- Define back emf and derive torque equations for a DC motor. (08 Marks) 8 a.
  - A shunt generator has 4 poles, lap wound armature having 24 slots with 10 conductors/slot. b. If the flux/pole is 0.04Wb, and the speed is 1500rpm, calculate the emf generated in the armature. What would be the generated emf if the winding is wave connected? (06 Marks)
  - Give the classification of DC generators with their equivalent circuit diagrams. (06 Marks) C.

# Module-5

- Explain the principle of working of an induction motor. 9 a.
  - List the advantages of rotating field over rotating armature. (06 Marks) b. A 36, 6-pole, star connected alternator, revolves at 1000rpm. The stator has 90 slots and c. 8 conductors/slot. The flux per pole is 0.05 Wb. Calculate the voltage generated by the

# OR

a. Explain the working principle of an alternator. Also derive its emf equation. (08 Marks) 10

\* \* \* \* \*

- Compare squirrel cage and slip ring types of rotors of an Induction motor. (06 Marks) b.
- An 8 pole alternator runs at 750 rpm, supplies power to a 4 pole induction motor. The C. frequency of the rotor is 1.5Hz. What is the speed of the motor? (06 Marks)

2 of 2

(06 Marks)

(06 Marks)

(06 Marks)

(08 Marks)

(06 Marks)



# Module-2

Fig.Q.2(c)

(05 Marks)

A

- 3 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?
  - 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)



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.

# 18CIV14

(04 Marks)

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



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 ladder to keep it in equilibrium. (10 Marks)

# Module-3

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

(06 Marks)



b. Analyze the truss shown in Fig. O5(b) to find member forces in member BC, CH and GH by method of sections. (14 Marks)



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

(06 Marks) (14 Marks)



# 18CIV14

#### 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.

(06 Marks)

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/s<sup>2</sup> and that of Q is 1.6 m/s<sup>2</sup>. 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)



# First/Second Semester B.E. Degree Examination, June/July 2019 Elements of Civil Engineering and Mechanics

CBCS SCHEME

Time: 3 hrs.

Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module. 2. Assume missing data suitably.

# Module-1

- a. Briefly explain the role of civil engineers in the infrastructure development of the country.
  - b. Explain briefly the scope of civil engineering in (i) structural engineering (ii) geotechnical engineering.
     (08 Marks)
  - c. A 200 N vertical force is applied to the end of the lever which is attached to a shaft as shown in Fig.Q1(c). Determine: (i) Moment of force about 'O' (ii) Horizontal force applied at 'A' which creates same moment about 'O' (iii) Minimum force which creates the same moment about 'O'.

# OR

2 a. Determine the resultant of the force system acting on a body as shown in the Fig.Q2(a) with respect to point 'O'.

2001



State and prove Varignon's theorem of moments.

Fig.Q2(a)

Fig.Q1(c)

(08 Marks) (06 Marks)

(06 Marks)

c. 2 kN force is the resultant of a system of forces acting along positive y-axis as shown in Fig.Q2(c). Determine the value of F and  $\theta$ .



(06 Marks)

b.

USN

1

(05 Marks)

# Module-2

- 3 a. What is meant by equilibrium? State the conditions of static equilibrium for both coplanar concurrent and non-concurrent force system. (05 Marks)
  - b. State and prove Lami's theorem.
  - c. Determine the force 'P' required to cause the motion of the blocks to impend. Take the weight of A as 90 N and weight of B as 50 N. Take coefficient of friction for all contact surfaces as 0.30 as shown in Fig.Q3(c) and consider the pulley being frictionless.



# 18CIV14/24

# Module-4

- Derive an expression for the centroid of a right angles triangle. 7 a. (06 Marks) (04 Marks)
  - State and prove perpendicular axis theorem. b.
  - с. Determine the polar radius of gyration for the built up section as shown in Fig.Q7(c).



Determine the moment of inertia of a semicircle with respect to its diameter line and hence 8 a. determine the moment of inertia with respect to its centroidal axis parallel to the diameter line. Also write the expression for moment of inertia with respect to a line perpendicular to the diameter passing through the centroid. (12 Marks)

OR

b. Determine the position of the controid for the Fig.Q8(b).



#### Module-5

- Define displacement, distance travelled, velocity and acceleration. Mention their respective 9 a. S.I. units. (04 Marks)
  - Acceleration of a particle is given by  $a = -2 \text{ m/s}^2$ . If v = 8 m/s and x = 0 when t = 0. b. Determine: (i) velocity (ii) total distance travelled when t = 6 sec. (08 Marks)
  - State D'Alembert's principle and mention its application in plane motion. C. (08 Marks)

## OR

- Derive the equations of motion. 10 a.
  - What is superelevation? Why is it necessary? b.
  - An aircraft moving horizontally at a speed of 300 km/hr at an elevation of 2.5 km targets a С. point on the ground and releases a bomb. If the bomb has to hit the target, determine the horizontal distance at which the aircraft should release the bomb. Also calculate the velocity and direction with which the bomb will hit the target. (08 Marks)

- (08 Marks)

- (04 Marks)

USN		18	ELN14/24				
	F	First/Second Semester B F. Degree Examination June/July 2	019				
	-	Basic Electronics	017				
Tim	e: 3	hrs. Max. M	1arks: 100				
	N	ote: Answer any FIVE full questions, choosing ONE full question from each me	odule.				
1	0	What is semiconductor diado? Explain the different equivalent circuits of diado	(0.0 )				
I	b.	Explain the working of photodiode.	(06 Marks) (05 Marks)				
	C.	With a neat circuit diagram and waveforms, explain the working of full v rectifier. Also derive $V_{dc}$ and $V_{rms}$ values for full wave rectifier.	vave bridge (09 Marks)				
		OR					
2	a.	A full wave rectifier uses 2 diodes having internal resistance of $20\Omega$ each. The rms secondary voltage from centre to each end is 50V. Find $I_{ms}$ , $I_{dc}$ , $I_{rms}$ and $V_{dc}$ is	transformer f the load is				
	b	$980\Omega$	(06 Marks				
	с.	Explain how Zener diode can be used as a voltage regulator. Give detail m	athematica				
		analysis.	(08 Marks				
3	a.	With a neat circuit diagram explain the working of CMOS inverter.	(06 Marks				
	b.	For a N-channel JFFT if $I_{DSS} = 8mA$ and $V_p = -5V$ , calculate $I_D$ at $V_{as} = -3V$ $I_D = 3mA$ .	/ and V <sub>as</sub> a (05 Marks				
	C.	Explain the construction, working and characteristics of N- channel JFET.	(09 Marks				
		OR					
4	a. h	Explain the working of SCR using two transistor model.	(06 Marks				
	о. с.	Explain the construction, working and characteristics of enhancement type MOS	(05 Marks FET.				
			(09 Marks				
		Module-3					
5	a.	What is $Op - AMP$ ? List the characteristics of ideal $Op - Amp$ .	(06 Marks				
	b.	Explain how $Op - Amp$ can be used as i) Integrator ii) Voltage Follower. Find the output of the $Op - Amp$ circuit shown in Fig $O5(c)$ below.	(08 Marks				
	0.	C					
		Vielt					
		the the					
		V20-1C T+ bycc					
		Fig O5(c)	(06 Marks				
			(UU WIALKS				

of to Important Note : 1. On completing your answers, compulsorily draw diagonal cross fines on the remaining blank pages. 2. Any revealing of identification anneal to evaluator and for equations written for 47+R = 50, will be tr

(06 Marks)

# OR

- 6 a. Explain the following terms with respect to Op Amp
   i) CMRR ii) Slew Rate iii) Output offset voltage iv) Supply voltage Rejection Ratio. (08 Marks)
  - b. Design on Op Amp circuit to obtain output expression as  $V_0 = -[V_1 + 3V_2 + 5V_3]$ . (06 Marks)
  - c. Explain how Op Amp can be used as differentiator.

#### Module-4

- 7 a. What is feedback amplifier? What are the properties of negative feedback amplifier?
  - b. Explain how transistor can be used as an amplifier. (06 Marks) (06 Marks)
  - c. With a neat circuit diagram and waveforms, explain the working of 555 timers as an oscillator. (08 Marks)

# OR

- 8 a. Draw the block diagram of voltage series negative feedback amplifier and derive the expression for its voltage gain. (06 Marks)
  - b Design a RC phase shift oscillator for a frequency of 1KHz. Draw the circuit diagram with designed values. (06 Marks)
    - With a neat circuit diagram, explain the working of Wein Bridge oscillator. (08 Marks)

# Module-5

9 a. Perform the following :

C.

- i) Convert (925.75)10 to base 2 and base 16
- ii) Subtract from (11011.11)<sub>2</sub> from (10101.11)<sub>2</sub> using 2's compliment method. (06 Marks)
- b. With a block diagram explain the working of 3-bit asynchronous counter. (06 Marks)
- c. What is multiplexer? Implement 8:1 multiplexer using basic gates. (08 Marks)

# OR

10	a.	Simplify $S = A \oplus B \oplus C$ and realize using basic gates.	(05 Marks)
	b.	What is flip-flop? Explain the operation of master slave JK flip flop.	(06 Marks)
	c.	Implement full adder using two half adders.)	(04 Marks)
	d.	With a block diagram, explain the working of basic communication system.	(05 Marks)



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1 of 2

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# Module-4

7	a.	Write a note on application of ferrous and non-ferrous alloys.	(06 Marks) aterial.
	b.	Define composite material. State tile advantages and approximation	(05 Marks)
	C.	Differentiate between Soldering, Brazing and Welding.	(09 Marks)
		OR	(0( )( , 1-)
8	2	Differentiate between Open and Crossed belt drive.	(06 Marks)
0	а. 1.	Enumerate the advantages and disadvantages of gear drive over belt drive.	(06 Marks)
	D. C.	Derive an equation for length of belt in open belt drive.	(08 Marks)
		Module-5	
9	a.	Explain the following operation on lathe with suitable sketches. (i) Turning (ii) Knurling (iii) Facing (iv) Thread cutting	(10 Marks)
	b.	Explain the following operation on milling machine with suitable sketches: (i) Form milling (ii) Angular milling (iii) Gang milling	(10 Marks)

# OR

		Differentiate between open loop and closed loop systems.	(06 Marks)
10	a.	Differentiate between open loop and closed loop sistenations	(04 Marks)
	b.	Define robot. Write down industrial applications of robot.	(10 Marks)
	c.	Explain the components of CNC with a block diagram.	(10 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.

- Explain with a neat sketch working of vapour compression Refrigerator. (08 Marks) 6 a.
  - (iii) Ice making capacity (06 Marks) Define : (i) Ton of Refrigerator (ii) COP b.
    - List commonly used refrigerants and mention the applications of air conditioners. (06 Marks) c.

# Module-4

- Classify ferrous and non ferrous metals. 7 a.
  - Define composites, explain any two of the following : (i) Piezoelectric materials. b. (iii) Optical fibre glass. (ii) Shape memory alloys
  - Classify metal joining processes, explain TIG (Tungsten Inert Gas) Welding with a neat c. (10 Marks) sketch.

# OR

8	a.	Derive an expression for length of the belt in open belt drive.	(10 Marks)
	b.	Mention advantages and disadvantages of V-Belt drive.	(05 Marks)
	с.	List different types of gears and explain any one with its advantages.	(05 Marks)

# Module-5

- Explain briefly the following: 9 a.
  - Turning (i)
  - (ii) Facing
  - Thread cutting (iii)

Explain the working of horizontal milling machine with a simple line diagram. (08 Marks) b.

- Explain briefly: с.
  - Angular milling. (i)
  - (ii) Gang milling.
  - Plane milling. (iii)

OR

10	a.	Explain briefly the components of a CNC machine with a neat block diagram.	(08 Marks)
	b.	Define Robots and mention its general applications.	(07 Marks)
	с.	Write short note on:	
		CNC Machining Center or Turning Center.	(05 Marks)

2 of 2

(06 Marks)

(06 Marks)

(05 Marks)

(05 Marks)



c. Derive one dimensional heat equation in the standard form as  $\frac{\partial U}{\partial t} = C^2 \frac{\partial^2 U}{\partial x^2}$ . (07 Marks)

#### OR

6 a. Solve 
$$\frac{\partial^2 z}{\partial x^2} + z = 0$$
 such that  $z = e^y$  where  $x = 0$  and  $\frac{\partial z}{\partial x} = 1$  when  $x = 0$ . (06 Marks)  
b. Solve  $(mz - ny) \frac{\partial z}{\partial x} + (nx - \ell z) \frac{\partial z}{\partial x} = \ell y - mx$  (07 Marks)

c. Find all possible solutions of one dimensional wave equation 
$$\frac{\partial^2 U}{\partial x^2} = C^2 \frac{\partial^2 U}{\partial x^2}$$
 using the

(07 Marks)

method of separation of variables.

8

a. Discuss the nature of the series (06 Marks) 7

b. With usual notation prove that 
$$J_{1/2}(x) = \sqrt{\frac{2}{\pi x}} \sin x$$
 (07 Marks)

c. If 
$$x^3 + 2x^2 - x + 1 = aP_3 + bP_2 cP_1 + dP_0$$
, find a, b, c and d using Legendre's polynomial.  
(07 Marks)

### OR

Discuss the nature of the series a.  $\frac{x}{1.2} + \frac{x^2}{3.4} + \frac{x^3}{3.4} + \dots$ (06 Marks)

Obtain the series solution of Legendre's differential equation in terms of  $P_n(x)$ b.  $(1 - x^2)y'' - 2xy' + n(n+1)y = 0$ (07 Marks)

Express  $x^4 - 3x^2 + x$  interms of Legendre's polynomial. (07 Marks) c.

# Module-5

- Find the real root of the equation  $x \sin x + \cos x = 0$  near  $x = \pi$  using Newton-Raphson 9 a. (06 Marks) method. Carry out 3 iterations.
  - b. From the following data, find the number of students who have obtained (i) less than 45 marks (ii) between 40 and 45 marks.

Marks	30 - 40	40 - 50	50 - 60	60 - 70	70 - 80	
No. of Students	31	42	51	35	31	
			2	1		(07 Mar

ks)

c. Evaluate  $\int_{0}^{6} \frac{1}{1+x^2} dx$  using Simpson's  $\frac{3}{8}^{44}$  rule by taking 7 ordinates. (07 Marks)

OR

- a. Find the real root of the equation  $x \log_{10} x = 1.2$  which lies between 2 and 3 using 10 (06 Marks) Regula-Falsi method.
  - b. Using Lagrange's interpolation formula, find y at x = 4, for the given data:

X	0	1	2	5	
У	2	3	12	147	
					(07

- Marks) (07 Marks)
- using Weddle's rule by taking six equal parts. с. Evaluate log, x dx

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USN			Question Pa	per Version : <b>A</b>
	First Seme	ster B.E. Degree E	xamination, Jun	e/July 2019
		Technical I	English – I	
	(	(COMMON TO A)	LL BRANCHES	)
l'ime	3 hrs.]			[Max. Marks: 100
		<b>INSTRUCTIONS T</b>	O THE CANDID	ATES
1.	Answer all the hu	undred questions, each	question carries ONI	E mark.
2.	Use only <b>Black I</b>	ball point pen for writi	ng / darkening the cir	rcles.
3.	For each question	on, after selecting you	ur answer, darken t	he appropriate circ
	corresponding to	the same question num	ber on the OMR she	eet.
4.	Darkening two c	ircles for the same ques	tion makes the answ	er invalid.
5.	Damaging/overv	writing, using white	ners on the OMR	sheets are strict
	prohibited.			
	the second s			24-24
1.	Which of the follow a) Listening	ing skills has the largest s b) Reading	whare in communication c) Writing	n time in schools/colle d) Spelling
1. 2.	Which of the follow a) Listening Body language is als a) Leakage	ing skills has the largest s b) Reading so known as b) Physical communic	whare in communication c) Writing ation c) Overflow	n time in schools/colle d) Spelling d) Noise
1. 2. 3.	Which of the follow a) Listening Body language is als a) Leakage Which of these is a c a) talking clearly	ing skills has the largest s b) Reading so known as b) Physical communic communication skill? b) Looking bored	hare in communication c) Writing ation c) Overflow c) Laughing	n time in schools/colle d) Spelling d) Noise d) Running
<ol> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> </ol>	<ul> <li>Which of the follow</li> <li>a) Listening</li> <li>Body language is als</li> <li>a) Leakage</li> <li>Which of these is a c</li> <li>a) talking clearly</li> <li>Which of these is a I</li> <li>a) Lack of knowledg</li> </ul>	ing skills has the largest s b) Reading so known as b) Physical communic communication skill? b) Looking bored ntrapersonal Communica ge b) Reading	<ul> <li>c) Writing</li> <li>ation c) Overflow</li> <li>c) Laughing</li> <li>tion barrier?</li> <li>c) Listening</li> </ul>	n time in schools/colle d) Spelling d) Noise d) Running d) Writing
<ol> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> </ol>	<ul> <li>Which of the follow</li> <li>a) Listening</li> <li>Body language is als</li> <li>a) Leakage</li> <li>Which of these is a c</li> <li>a) talking clearly</li> <li>Which of these is a I</li> <li>a) Lack of knowledg</li> <li>Which of the follow</li> <li>a) Pictures</li> </ul>	ing skills has the largest s b) Reading so known as b) Physical communic communication skill? b) Looking bored ntrapersonal Communica ge b) Reading ing can become a type of b) Meetings	<ul> <li>c) Writing</li> <li>ation c) Overflow</li> <li>c) Laughing</li> <li>tion barrier?</li> <li>c) Listening</li> <li>written communication</li> <li>c) Letters</li> </ul>	n time in schools/colle d) Spelling d) Noise d) Running d) Writing n? d) Rules
1. 2. 3. 4. 5.	<ul> <li>Which of the follow</li> <li>a) Listening</li> <li>Body language is als</li> <li>a) Leakage</li> <li>Which of these is a c</li> <li>a) talking clearly</li> <li>Which of these is a I</li> <li>a) Lack of knowledg</li> <li>Which of the follow</li> <li>a) Pictures</li> <li>Identify the Parts o</li> <li>(Q.No.6 to Q.No 9)</li> </ul>	ing skills has the largest s b) Reading so known as b) Physical communic communication skill? b) Looking bored ntrapersonal Communica se b) Reading ing can become a type of b) Meetings f Speech of the underline	<ul> <li>c) Writing</li> <li>ation c) Overflow</li> <li>c) Laughing</li> <li>tion barrier?</li> <li>c) Listening</li> <li>written communication</li> <li>c) Letters</li> </ul>	n time in schools/colle d) Spelling d) Noise d) Running d) Writing n? d) Rules <b>iven options :</b>
<ol> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> </ol>	<ul> <li>Which of the follow</li> <li>a) Listening</li> <li>Body language is als</li> <li>a) Leakage</li> <li>Which of these is a c</li> <li>a) talking clearly</li> <li>Which of these is a I</li> <li>a) Lack of knowledg</li> <li>Which of the follow</li> <li>a) Pictures</li> <li>Identify the Parts of (Q.No.6 to Q.No.9)</li> <li>"Unfortunately, they</li> <li>a) Pronoun</li> </ul>	ing skills has the largest s b) Reading so known as b) Physical communic communication skill? b) Looking bored ntrapersonal Communica ge b) Reading ing can become a type of b) Meetings <b>f Speech of the underlin</b> y haven't been paying on b) Adjective	<ul> <li>share in communication</li> <li>c) Writing</li> <li>ation c) Overflow</li> <li>c) Laughing</li> <li>tion barrier?</li> <li>c) Listening</li> <li>written communication</li> <li>c) Letters</li> <li>ated words from the given the given barrier</li> </ul>	n time in schools/colle d) Spelling d) Noise d) Running d) Writing n? d) Rules <b>iven options :</b> d) Adverb
<ol> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> </ol>	<ul> <li>Which of the follow</li> <li>a) Listening</li> <li>Body language is als</li> <li>a) Leakage</li> <li>Which of these is a c</li> <li>a) talking clearly</li> <li>Which of these is a I</li> <li>a) Lack of knowledg</li> <li>Which of the follow</li> <li>a) Pictures</li> <li>Identify the Parts of (Q.No.6 to Q.No 9)</li> <li>"Unfortunately, they</li> <li>a) Pronoun</li> <li>"His colour is very day of the parts</li> </ul>	ing skills has the largest s b) Reading so known as b) Physical communic communication skill? b) Looking bored ntrapersonal Communica ge b) Reading ing can become a type of b) Meetings <b>f Speech of the underlin</b> y haven't been paying on b) Adjective lark" b) Noun	share in communication c) Writing ation c) Overflow c) Laughing tion barrier? c) Listening written communicatio c) Letters <b>red words from the gi</b> time <u>recently</u> . c) Verb c) Preposition	n time in schools/colle d) Spelling d) Noise d) Running d) Writing n? d) Rules <b>iven options :</b> d) Adverb d) Adverb

Version-A : Page 1 of 8

9.	" <u>India</u> is a great Countr a) Proper noun	y". b) Verb	c) Common noun	d) Adverb
10.	The Plural of the word a) Furnitures	"Furniture" is b) Furniture	c) Furnitureses	d) More Furnitures
11.	Which of the following a) Mankind	g noun is not used as plural' b) Sisters	c) Wages	d) Goods
12.	We are of the a) Brothers	same Profession. b) Sons	c) Brethren	d) Cousins
13.	Have you heard of a) His	? b) Him	c) He	d) You
1 <b>4</b> .	It was that gav a) Me	e the first blow. b) Mine	c) I	d) his
15.	$\frac{1}{a) Every}$	was given a medal b) Each	c) their	d) whom
16.	Your description was a) More perfect	b) Most perfect	c) Perfect	d) Perfectest
17.	Your performance gav a) Full	e mesatisfaction b) Fuller	c) Fullest	d) Most full
<mark>18</mark> .	He is the men a) Eldest	mber of the club b) Oldest	c) Elder	d) None
<mark>19</mark> .	He comes from a a) Further	village than mine. b) Furthest	c) Farther	d) Father
20.	'Later' denotes Time, a) Number	Latter' denotes. b) Position	c) Measure	d) Close – to.
21.	The cattle gra a) was	zing. b) were	c) is	d) has
22.	Either of the two boys a) are	s welcome b) were	c) is	d) have
23.	It was hot to a a) Too	drink. b) Very	c) Much	d) Most
24.	I got up at 6 a.m and i a) Yet	it was dark b) Untill	c) Still	d) till
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25.	The experiments are a) still	not over b) of course	c) yet	d) Quite.
26.	If, "Commonsense" i a) an adverb	s objective, then "Comm b) a noun	on sense" is c) a verb	d) An adjective
27.	The teacher ordered i a) with	me to write ink b) in	c) on	d) over
28.	The Lion sprang	the cow to kill it		
	a) upon	b) on	c) over	d) above
<mark>29</mark> .	Sheela resembles a) with	her mother	b) on	
	c) from		d) No preposition	needed
30.	I have been waiting f a) since	or you the last b) for	three days c) over	d) from
31.	China lies the a) To	e north of India b) for	c) above	d) on
32.	Translate this passage a) in	e from EnglishK	annada c) to	→ d) from
33.	Let us discuss a) on	'Female literacy in In	dia". b) about	
24			d) No preposition i	s needed
<u>34</u> .	a) on	b) over	c) since	d) about
35.	It was because of a) of, on	you, that he was able b) to , with	to see his plans c) of, through	d) to, of
36.	He kept telling a) on, up	me to give smok b) at, on	ing c) on, to	d) up, on
37.	Can you bring me a) few	books? b) a few	c) the few	d) little
38.	I can't write this lette a) At	r now as I have other ma b) To	tters to attend c) for	d) on
39.	With your help, I cou a) away	ld tide my difficult b) off	ies c) against	d) over
40.	Entrythis aud a) to, by	itorium is ticket b) in , through	c) to , of	d) into, by
		Version-A	: Page 3 of 8	

41.	My elder brother is Ma a b) or	M.A, where as I am only	a B.A. c) the	d) that		
42.	USA is the riches a) A b) A	st country in the World n	) The	d) That		
43.	He is European b a) a, an b) an	out his wife is India n , a c	an. ) a , the	d) An, the		
44.	a) A Honesty is one of the b) A	the choicest gift. An c)	The d) 1	No article is needed		
45.	He is ablest man a) the b) a	in town.	e) an	d) None		
46.	I learning English a) have b) h	a grammar for many days	s c) have been	d) has been		
47.	a) Are b) is	vn to all? s	c) Has	d) was		
<mark>48</mark> .	I him very well a) Knowing b) k	xnow	c) known	d) knows		
<mark>49</mark> .	He told me that hes a) canb) c	solve all the sums	c) were	d) did		
50.	She playing table to a) has been b) h	ennis since morning nas	c) have	d) have been		
51.	She not come here a) shall b) y	unless I invite her will	c) has	d) has been		
52.	We eat so that we a) shouldb)	live. would	c) may	d) Dare		
	Choose the appropriate Q.No.57)	Question Tag, to com	plete the following ser	ntences (Q.No.53 to		
53.	'You can't take exams light a) can you? b)	htly'. could you?	c) can't you?	d) couldn't you?		
54.	"Mother is so happy" a) was she? b)	isn't she?	c) can't she?	d) did she?		
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55					
55.	a) Didn't we?	b) Did we?	c) weren't we?	d) don't we?	
56.	'The question was no	t so easy'			
	a) was it?	b) is it?	c) wasn't it?	d) isn't it?	
57.	'Let us start the meeti	ng'			
	a) can't we?	b) shall we?	c) are we?	d) didn't we?	
	Choose the correct s	ynonym for the following	words (Q.No.58 to Q.No	0.62)	
58.	Assent :				
	a) Consent	b) Present	c) Content	d) Contempt	
59.	Bias :				
	a) Proportion	b) Prejudice	c) Probe	d) Peace	
60.	Comprehend :				
0.01	a) Understand	b) Smart	c) Good	d) Disagree	
61.	Deceit ·				
011	a) ailment	b) Fraud	c) Dear	d) Crime	
62	Care ·				
02.	a) need	b) Seed	c) heed	d) bleed	
	Choose the appropri	ate Antonym for the follow	ving words: (Q.No.63 to	Q.No.67)	
63.	Abundance :				
	a) earth	b) dearth	c) birth	d) death	
64.	Discount :				
	a) differ	b) premium	c) few	d) retreat	
65.	Enthusiaism :				
	a) Zeal	b) indifference	c) more	d) differ	
"	Destaure				
00.	a) Prepone	b) Advance	c) Often	d) Before	
-				Consta <b>nt</b> - Constant Constant Sector - Constant	
67.	Numerous :	la) from	A 11		
	a) some	b) lew	c) all	d) many	
	Choose the suitable I	Homophones for the follow	ving words: (Q.No.68 to	Q.No.72)	
68.	Air :				
	a) Heir	b) ear	c) dear	d) hire	

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				18EGH18
69.	Bare : a) Bale	b) Bear	c) Brake	d) Hair
70.	Cast : a) Caste	b) Chaste	c) taste	d) waste
71.	Die : a) Due	b) Dye	c) Day	d) Dice
72.	Gate : a) Guilt	b) Gilt	c) Gait	d) Mate
	Select the correct Pro	efix or Suffix from the Op	tions given to complete	the gap : (Q.No. 73
	to $Q.No.79$ )			
73.	a) Anit	b) Ambi	c) Ante	d) An
74.	a) meta	b) theta	c) mega	d) Hypo
75.	adventure a) dis	b) mis	c) un	d) mal
76	dontics			
/0.	a) ortho	b) nano	c) Demo	d) out
77.	Block a) aid	b) ade	c) ail	d) ant
78.	Colona) tion	b) ship	c) isation	d) ment
79.	Fear a) ship	b) less	c) ous	d) ent
	Select the correct (Q.No.84)	spelling for each of these	e commonly misspelled	words (Q.No.80 to
80.	a) abandon	b) abondan	c) abandan	d) abanden
81.	a) beleive	b) believe	c) belive	d) believ
82.	a) Calendar	b) Calender	c) Calandar	d) Calaner
83.	a) deceive	b) decieve	c) deceve	d) decive
84.	a) Grammore	b) Gramor	c) Grammar	d) Gramer

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	(Q.No.85 to Q.No.89	9)		
85.	Crum :			
	a) d	b) b	c) t	d) s
86.	Su tle			
00.	a) b	b) t	c) d	d) n
		0).		d) p
87.	Han Kerchief			
	a) p	b) t	c) b	d) d
00	C			
88.	conac	b) a		15 I
	a) 0	b) c	c) g	d) d
89.	Clou			
	a) gh	b) ht	c) ch	d) hg
				, 0
		£ 1		
	Choose the correct	pair of words from the giv	ven options. (Q.No.90 to	Q.No.91)
90	Ankle			
70.	a) angle	b) uncle	c) hanker	d) hangla
	u) ungio	o) unere	c) ouriker	() bangie
91.	Shoes :			
	a) Choose	b) Chase	c) Chide	d) base
0.0				
92.	The Pronunciation of	Definite article 'The' befo	re a consonant is	
	a) thee	b) th-uh	c) th-hu	d) th-eh
93.	Which of the followi	ng is an adjective derived f	rom adjective root?	
	a) Active	b) Single	c) Golden	d) Bovish
			.)	a) boyish
94.	Jack and Peter dislik			
	a) One another	b) each other	c) each one	d) each another
05	I have farst			
95.	a) Bravo 1	b) Oons 1	c) Hark I	d) Ein I
	a) bravo .	0) 00ps :	c) mark :	d) Fle !
96.	Cautious in speech of	r action is called		
	a) Discreet	b) Discrete	c) Degree	d) Decree
				na 🔊 – Chandrad Alfande Alfa 200
97.	I have learnt these	by heart		
	a) Poetry	b) Poetries	c) Poems	d) Poem
98	Which of the following	no word has /i +/ sound?		
20.	a) Car	b) Seat	c) Fit	d) books
		-1 2000	-/	a) 000K3
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Select the missing silent letters from the options given. Check the spelling carefully. (Q.No.85 to Q.No.89)

99.	Which of the follow a) Car	ing word has /x/ sound b) bad	c) said	d) dot
100.	Which of the follow a) father	ing word has /t/ sound b) hut	c) love	d) beat
		**	***	
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			18EGH28
JSN		Question Pa	per Version : A
Se	cond Semester B.E Degr	ee Examination, Jun	e / July 2019
	(COMMON TO		
me <sup>.</sup> 3 hrs		<b>JALL BRANCHES</b>	)
			[Max. Marks: 100
	INSTRUCTION	NS TO THE CANDIDA	ATES
1. Ans	wer all the hundred questions, e	ach question carries ONF	E mark.
<b>2.</b> Use	only Black ball point pen for w	writing / darkening the cir	cles.
3. For	each question, after selecting	your answer, darken ti	ne appropriate circle
corr	esponding to the same question	number on the OMR shee	et.
4. Darl	cening two circles for the same	auestion makes the answe	er invalid
5. Dan	naging/overwriting, using w	hiteners on the OMP	shaata ara striathu
proh	ibited	inteners on the OMIK	sheets are strictly
pron	indited.		
Choos	e the appropriate verb that agree	es with the subject: (O.No	.1 to O.No.4)
. The ad	ventures of Tom Sawyer	written by Twain.	
a) we	re b) was being	c) was	d) are
. All sea	ts in the bus numbers.		
a) hav	/e b) has	c) had	d) having
. Justice	, as well as mercy it.		
a) allo	b) allowed	c) allowes	d) will allow
. Time a	nd tide for none.		
a) wai	b) wait	c) waiting	d) waited
Choose	e the correct pronoun that agree	s with the noun: (O No 5 t	$0 O N_0 7$
. The co	mmittee has appended a note to	report.	· (
a) the	ir b) its	c) them	d) there
The Ju	y were at sixes and sevens	could not decide a thing	
		-	

7. He was the man \_\_\_\_\_ they thought was dead.a) of \_\_\_\_\_ b) who c) whom d) none

b) They

a) It

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c) Their

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d) He

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	Fill in the blanks w	ith appropriate adjectives	: (Q.No.8 to Q.No.10)	
8.	The flowers smell	· ·		
	a) Sweetly	b) Sweeter	c) Sweet	d) Sweetest
9.	Patricia is the	of the Vicar's family.		
	a) oldest	b) Eldest	c) Elder	d) Older
10.	She has	dresses.		
	a) many	b) much	c) more	d) low
	Choose the appropriate the comparison of the com	riate adverbs: (Q.No.11 to	Q.No.13)	
11.	The king treated the	beggar		
	a) royal	b) royally	c) more royally	d) most royally
12	I went through the b	ooks		
	a) quickly	b) quick	c) quicker	d) quickest
13	VOU W	ork the better you achieve		
	a) Harder	b) The harder	c) Hard	d) Smart
	Choose the right fo	rm of the verb: (Q.No.14 to	o Q.No.16)	
14.	Prakhyathi	lunch and thanked me.		
	a) eat	b) eating	c) ate	d) had eaten
15.	This exit	only when there is fire.		
	a) is used	b) is to used	c) was used	d) was to be used
16.	I some times	to the cinema.		
	a) to go	b) go	c) goes	d) will go
	Select the correct te	ense form of the verb: (Q.N	lo.17 to Q.No.18)	
17.	One of the houses	to Swathi.		
	a) is belonging	b) belong	c) belongs	d) to belong
18.	Praveen	to college everyday.		
	a) comes	b) come	c) is coming	d) came
	Choose the correct	article from the given optic	ons: (Q.No.19 to Q.No.	21)
19.	oranges	are grown in Nagpur.		
	a) a	b) an	c) the	d) no article
20.	Island E	Express is very popular.		
	a) The	b) An	c) A	d) no article
21.	He is hor	nest man and deserves a rew	ard.	
	a) an	b) a	c) the	d) no article
		-		

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**18EGH28** Select the correct preposition from the given option to complete the gap : (Q.No.22 to Q.No.25) 22. We need the entire payment advance. a) for b) with c) in d) on They arrived in this city thirty years \_ 23. a) ago b) by c) before d) later 24. Don't you know, \_\_\_\_ holidays all schools remain closed? a) between b) during c) of d) on 25. She has been working here \_\_\_\_\_ 10 years. a) for b) since c) from d) of Choose the right conjunction from the given options to complete the gap : (Q.No.26 to Q.No.28) 26. We stayed at home \_ watched a movie. a) and b) but c) so d) or 27. she speaks often seldom. She says motivational words. a) Even b) After c) As long as d) Although 28. I was wexed you did that. a) if b) when c) till d) because Select the correct meaning of the underlined idiom : (Q.No.29 to Q.No.31) 29. This is the time to take stock of the whole situation. a) to update inventory b) to assess c) to collect stock d) to verify stock As she is only girl in a big family, she is <u>all in all</u> in her home. 30. a) every person b) particularly same in all c) call all at once d) most important He gave his cold shoulder at my bad times. 31. a) Shiver b) cold meat c) to ignore d) to support Choose the appropriate phrases from the given options to fill in the blanks : (Q.No.32 to Q.No.33) The union has 32. the strike. a) called of b) called off c) called in d) called into 33. Don't the milk. a) boil up b) boil over c) boil in d) boil off Select the correct gender of the underlined words : (Q.No.34 to Q.No.36) Two cocks were made to fight with each other. 34. a) male b) female c) neuter d) common

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35.	An <u>elephant</u> was trum a) male	peting in the jungle. b) female	c) neuter	d) common
36.	The doctor called for	an ambulance.		
	a) common	b) neuter	c) female	d) male
	Choose the correct v	word which indicates the	right option to comple	ete the gap: (Q.No.37
37.	I saw herd of	 b) cattles	c) catle	d) cattl
20	Kashmir Vallay has m	any beautiful	-	ing the concentration
38.	a) Scenary	b) Scenaries	c) seens	d) seen
39.	<ul><li>Which of the followin</li><li>a) Dyed purple, Bel</li><li>b) Jumping up, the b</li></ul>	g sentences does not contai la enjoyes the blanket. b kitten caught the treat. d)	n misplaced modifier? ) Pulled apart, Chris ate Eating the kettle corn, t	the kettle corn bag. he bag crunched.
40.	Choose the best option a) At his arrival, the s b) On his arrival, the s c) With his arrival, the d) In his arrival, the sp	n in the following sets of se pectators greeted the supers spectators greeted the super e spectators greeted the super pectators greeted the super s	ntences: tar. star. erstar. star.	
41.	The sentence that intr a) The introduction se c) The topic sentence	oduces the main idea in a particular of the part	<ul><li>aragraph is called</li><li>b) The exclusive senter</li><li>d) The first sentence.</li></ul>	nce
42.	Which of the followin a) Narrative	g is not a kind of paragraph b) Persuasive	c) Descriptive	d) Expansion
43.	The following is not a a) Ellipsis ()	b) Parenthesis (())	c) Star (*)	d) Colon ( : )
44.	Choose the appropria	te punctuation marks requi	red in the following se	ntences : Wow
	a) ?.	b) !!	c) !.	d) !?
45.	The following form o work.	f condensation involves the	writing to highlight the	e purpose and scope of
	a) Synopsis	b) Abstract	c) Paraphrase	d) Summary
46.	What is the order of w $P \rightarrow Read$ and compresent $Q \rightarrow Edit$ and revise a) PQRS	writing an effective precis? ehend $R \rightarrow$ Prepare a $S \rightarrow$ Prepare the b) SRQP	skeleton of main ideas e first draft c) RSQP	d) PRSQ

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<b>4</b> 7.	Which type of essay often reviews a book, mov a) Argumentative Essay b) Analytical Essay of	ie or topic? c) Descriptive Essay d) Philosophical Essay			
48.	An Essay can be divided into distin a) 2 b) 4	ct parts. c) 5 d) 3			
49.	<ul> <li>Which of the following sentences is / are example/examples for errors due to Indianism.</li> <li>a) What is the time on your watch?</li> <li>b) Are you going in the train?</li> <li>c) His father is an excellent fellow</li> <li>d) All of these</li> </ul>				
50.	<ul><li>'My father does cloth selling business'. It is be be corrected as,</li><li>a) My father deals in cloth</li><li>c) Cloth selling is my father's business</li></ul>	b) My father sells clothes d) All the these			
51.	The characteristics of Technical Report are, a) Clarity and Preciseness c) Both (a) and (b)	<ul><li>b) Coherence and Objectivity</li><li>d) Neither (a) nor (b)</li></ul>			
52.	<ul><li>Annual report' is an example for,</li><li>a) Periodic report</li><li>b) Informal report</li></ul>	c) Formal report d) Group report			
53.	The following is not a format of technical report a) Printed forms b) Memo format	<ul><li>c) Letter format</li><li>d) None of these</li></ul>			
54.	Choose the pair of word / phrase from the options given that best expresses a similar relationship to that of the given pair : (Q.No.54 to Q.No.56) Sport : Soccer a) fish : water b) stadium : game c) volleyball : net d) literature : sonnet				
55.	Patient : Hospital a) Teacher : School b) Pilot : Aeroplane	c) Litigant : Court d) Priest : Church			
56.	Skyscraper : Shack a) Elevator : Escalator c) Jetliner : Biplane	<ul><li>b) Village : Town</li><li>d) Chimney : Fireplace</li></ul>			
57.	Choose the correct form of Active/Passive voi (Q.No.57 to Q.No.61) The king gave him a reward. a) A reward was given by him to the king c) He was given the reward by a king	<b>ce of the following sentences:</b> b) He was given a reward by the king. d) He was given by a king the reward.			
58.	Do you understand what I mean? a) What I mean is understood by you? c) What I mean is that understood by you?	<ul><li>b) Was what I mean understood by you?</li><li>d) Is what I mean understood by you?</li></ul>			

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- **59.** Before festivals the shops are thronged with men, women and children making various purchases.
  - a) During festivals people throng the shops.
  - b) The shops are thronged by people making purchases.
  - c) Men, women and children make purchases during festivals.
  - d) Men, women and children throng the shops before festivals making various purchases.
- 60. Don't laugh at me.

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- a) Let me be not laughed at.
- c) Let me be laughed at.

- b) I am laughed at.
- d) Let me be not laughed

61. Has a dog ever bitten you?

b) Have you ever been bitten by a dog?

a) You are bitten by a dog.c) Has a dog ever bites you?

d) Have you ever being bitten by a dog?

# Select the correct form of Reported Speech of the following sentences: (Q.No.62 to Q.No.67)

- 62. He said to the interviewer "Could you please repeat the question?" a) He requested to the interviewer if he could repeat the question.
  - b) He requested the interviewer to please repeat the question.
  - c) He requested the interviewer to repeat the question.
  - d) He requested the interviewer if he could repeat the question.
- 63. He said to them, "Be quiet and listen to my words".
  - a) He urged them to be quite and listen to his words.
  - b) He urged them and said be quiet and listen to his words.
  - c) He urged they should be quite and listen to his words.
  - d) He said you should be quite and listen to his words.
- 64. David said to Anna, "Mona will leave for her native place tomorrow."
  - a) David told Anna that Mona will leave for her native place tomorrow.
  - b) David told Anna that Mona left for her native place the next day.
  - c) David told Anna that Mona would be leaving for her native place the next day.
  - d) David told Anna that Mona would leave for her native place the next day.
- 65. He said, "I cannot help you now as I am in trouble."
  - a) He said, that he cannot help him now as he was in trouble.
  - b) He said, that he could not help him then as he was in trouble.
  - c) He said, that he would not help him as he was in trouble.
  - d) He said, that he could not help you then as he was himself in trouble.
- 66. Fathima said to Geetha, "Could you lend me a pen?"
  - a) Fathima asked to Geetha if she can lend her a pen.
  - b) Fathima asked Geetha if she could lend me a pen.
  - c) Fathima asked Geetha whether she could lend her a pen.
  - d) Fathima questioned Geetha whether she can lend her a pen.

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67.	<ul><li>"Are you alone, my son?" said a soft voice behind me.</li><li>a) A soft voice from my back asked if I was alone.</li><li>b) A soft voice from behind me asked whether you are alone.</li><li>c) A soft voice asked behind me if you are alone.</li><li>d) A soft voice behind me asked if I was alone.</li></ul>				
68.	<ul> <li>Choose the part of the sentences in which grammatical error is noticed :</li> <li>(Q.No.68 to Q.No.71)</li> <li>One of the members/expressed doubt if/the minister was an atheist.</li> <li>a) One of the members b) expressed doubt if c) the minister was an atheist d) No error</li> </ul>				
69.	We discussed about the problem/so thoroughly/on the even of the examination.a) We discussed about the problemb) So thoroughlyc) On the even of the examinationd) No error.				
70.	If suppose/you take my car today,/will you return it tomorrow? a) If suppose b) you take my car today c) will you return it tomorrow d) No error.				
71.	My friend is/more better than/my sister in studies. a) My friend is b) more better than c) my sister in studies d) No error				
	Choose the correct word to fill the gaps in the following : $(0.N_0.72 \text{ to } 0.N_0.73)$				
72.	When Mr. Jones died, we went to pay our (1) to him. The (2) house was in the row opposite (3). However, it took us longer to reach there as the street was filled with many visitors (4) had come there.         (1) (A) regard (B) regards (C) respects (D) respect         (2) (A) Jones' (B) Jones (C) Jone's (D) John's         (3) (A) our (B) ours (C) us (D) we         (4) (A) who (B) whom (C) that (D) which				
	a) D, A, B, A b) D, A, C, A c) A, B, C, A d) A, A, B, A				
73	If you really want to grow in life you need to be (1) needed to be it is in this and the (2). It is				

73. If you really want to grow in life, you need to be <u>(1)</u> reader. It is in this sense that <u>(2)</u> helps you in every possible way. It is easily said than done however. It is so because we all want to tell others how we feel but there aren't many who really think that listening to others or reading what others have written can give them a good outlet. That is why, more of us rather than listening and reading, are keen to speak. We must watch out for this habit of ours. Being <u>(3)</u> is certainly an asset but without content you are more likely to sound like a worthless <u>(4)</u> man.

(1) A) Vicarious	B) voracious	C) avaricious	D) Pernicious
(2) A) Soliloquy	B) Solicitude	C) solitude	D) lassitude
(3) A) garrulous	B) eloquent	C) loquacious	D) capricious
(4) A) Voracious	B) Careless	C) placating	D) garrulous
a) A, C, B, D	b) B, C, A, D	c) C, A, D, D	d) B, C, B, D

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- 74. What is the position of 'details of the recipient' in a formal letter?a) Left hand side b) Top right side c) Below the salutation d) Can be placed anywhere
- 75. How do you end the main body of a formal letter?
  - a) By telling the recipient what he should be doing next.
  - b) By talking about the weather in your city.
  - c) By talking about the weather in the recipient's city.
  - d) By expressing your love for the recipient.
- 76. Which of the following elements is not included in 'standard elements' in a business letter?a) Letter head and dateb) Salutationc) Signature blockd) Subject line
- 77. How should a business letter look like?
  - a) It has to be professional and effective by using the templates.
  - b) It should be written using easy words so that an illiterate also can understand.
  - c) It has be written similar to informal letter.
  - d) It should be written brief and short.

78. The following element should not be included in letter of application.

- a) Mentioning the position for which you wish to apply.
- b) The information that is included in your resume.
- c) Emphasize the qualification that the prospective employer would like to seek in you.
- d) Let the employers know how you came to know about the vacancy in their company.
- 79. Why do we write letter of application?
  - a) To request the employer to do a favour by giving a job.
  - b) To let the employers know of our address so that they can send offer letter.
  - c) To let the employer know of our writing skills.
  - d) To provide the true information of ours and to mention why and how we are the suitable candidates for the job.
- 80. The cover letter is written,
  - a) to introduce oneself as the suitable candidate for the job.
  - b) to give biographical details of the candidate.
  - c) to try for the job.
  - d) to let the employer know how good candidate is in different languages.
- 81. What is the standard font size in a resume?
  a) 10 12
  b) 8 10
  c) 12 14
  d) 6 8
- 82. Curriculum Vitae (CV) is used by \_\_\_\_\_\_
  a) Experienced professionals
  b) Freshers
  c) Trainers
  d) Candidates with 1 or 2 years of experience
- 83. Which of the following is not an essential information in resume?a) Name & Address b) Educational qualification c) Job objective d) Family background
- 84. The following is not an essential element in Email header.a) The e-address of the senderb) BCC (Blind Carbon Copy)
  - c) The e-address of the receiver d) Greetings

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85	Email stands for 18EGH28				
05.	a) Electronic mail b) Electric mail c) Emergency mail d) Essential mail				
86.	Identify the false statement about Blog writing.a) Blogs can be in any languageb) A person can't maintain multiple blogsc) Blog is a personal/online diaryd) Blog is also called weblog.				
87.	Identify the factor which is not important while planning a presentation.a) Objective of the presentationb) Audiencec) Structure of the presentationd) Minimum education qualification for presenter				
88.	A typical presentation would have the following part in its structure. a) Main body b) Conclusion c) Questions and responses d) All of these				
89.	<ul> <li>Which of the following statements about facing an interview is false?</li> <li>a) Greet people with a smile and firm hand shake.</li> <li>b) Make good eye contact.</li> <li>c) Express your weaknesses more positively.</li> <li>d) Don't make an attempt to read the body language of the interviewers.</li> </ul>				
90.	<ul> <li>Which of the following should be adapted at an interview?</li> <li>a) Using hand gestures</li> <li>b) Crossing hands together</li> <li>c) Fiercely nodding head continuously</li> <li>d) Expressing the disagreement in too much negative way.</li> </ul>				
91.	<ul> <li>Which of the following is not an element of Group discussion?</li> <li>a) Group size</li> <li>b) Subject knowledge</li> <li>c) Evaluation of candidates</li> <li>d) Unnecessary Argument.</li> </ul>	19. 19.			
92.	Group discussion is a) a form of group communication c) oral in nature b) an example for formal communication d) meant only for conducting interviews				
93.	Non-verbal communication is not concerned with a) Kinesicsd) Paralinguistic				
94.	is an example for non-verbal communication media.a) timeb) bulletin boardc) spaced) a and c	1			
95.	<ul> <li>Which of the following is not a tip on non-verbal communication for Group Discussion?</li> <li>a) Being formally and neatly dressed</li> <li>b) Staying alert all the time</li> <li>c) Keep on fiddling with pen</li> <li>d) Maintaining a pleasing disposition</li> </ul>	1989			
96.	Non-verbal communication does not involvea) Silenceb) gesturesc) postured) words	นั้น			
97.	What are the types of Interpersonal communication skills? a) Direct & Indirect b) Verbal & Ordinary c) Direct & Passive d) Verbal & Non Verbal	jan k			

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- 98. Which of the following is not a barrier to inter-personal communication?a) wrong assumption b) limited vocabulary c) emotional outburst d) poor listening skills
- 99. Identify the false statement about inter-personal communication.
  - a) Inter-personal communication is sharing of information among people.
  - b) It can be formal or informal communication
  - c) It is a communication between human beings and animals
  - d) It is helpful to give immediate feedback and to clarify.
- 100. Which of the following is not a tip to improve inter personal communication skills?
  - a) Think before you speak

- b) Don't be defensive or attacking
- c) Be open to receive feedback
- d) Be dominate over others

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