Code No.: 80B06 | MR18

MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)

(Affiliated to JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD)
Gundlapochampally (H), Maisammaguda (V), Medchal (M), Medchal-Malkajgiri (Dist), Hyderabad

I B.TECH II SEMESTER SUPPLEMENTARY EXAMINATIONS, DECEMBER-2019

Subject: **ENGINEERING MATHEMATICS-II**

Branch: **COMMON TO ALL**

Time: 3 hours **Max. Marks: 70**

Answer all questions **5X14M=70 Mark**

1. a) 500 bacteria exponentially increase their number to 1200 in a span of 2 hours in compliance with the law of natural growth. Find the count after 5 hours and also the time required for the bacteria to become fivefold [6]

   b) Solve the differential equation $(y\,logy)dx + (x - logy)dy = 0$ [8]

OR

2. a) A metallic lump of metal whose initial temperature is 140^0 cools down to 110^0 in a span of 6 minutes. The temperature of the surrounding medium is 50^0 C. Find the temperature of the lump after 12 minutes and also the time when the lump's temperature drops to 90^0 C [6]

   b) Solve the first order differential equation $\frac{dy}{dx} = \frac{y}{x-\sqrt{xy}}$ [8]

3. a) Use exponential shift to solve the linear differential equation [7]

$$y'' + 6y' + 5y = e^{-2x}cos3x.sin2x$$

   b) Solve the initial value problem $y'''' + 2y'' - 15y = 1 + 2x$ subject to $y(0) = 1$ *and* $y'(0) = 0$ [7]

OR

4. a) Apply the method of variation of parameters to solve the differential equation [7]

$$y'' - 10y' + 25y = \frac{e^{5x}}{x^2}$$

   b) Solve the Çauchy homogeneous equation $x^3y''' + 3x^2y'' + xy' + 8y = 260\cos(logx)$ [7]

5. a) Find the shortest distance between the origin and the plane $2x + 3y - 6z - 28 = 0$ using the Lagrange multiplier method [8]

   b) Given that $x = e^u + e^{-v}$ *and* $y = e^{-u} - e^v$, show that $\frac{\partial F}{\partial u} - \frac{\partial F}{\partial v} = x\frac{\partial F}{\partial x} - y\frac{\partial F}{\partial y}$ [6]

OR

6. a) Establish functional dependence in the transformation $u = \frac{xy}{(x+y)^2}, v = \frac{(x-y)^2}{(x+y)^2}$ and hence find the relation [6]

   b) Find the relative extrema of the function $x^3 + 3xy^2 - 15x^2 - 15y^2 + 72x$ [8]

7. a) Solve for a in the triple integral $\int_0^a \int_0^y \int_0^{x+y} xy\, dz\, dx\, dy = \frac{16}{3}$ [7]

   b) Using the double integral, evaluate the area enclosed by $x^2 + y^2 = 4$ *and* $x + y = 2$ [7]

OR

8. a)Use spherical coordinates to evaluate the volume of a sphere centered at the origin and of radius a [6]

   b) Evaluate the double integral $\int_0^2 \int_0^{\sqrt{2y-y^2}} \frac{dxdy}{\sqrt{x^2+y^2}}$ by transforming into polar coordinates [8]

9. a) Show that the field $\vec{F} = (2xy + z^3)i + x^2j + 3xz^2k$ is conservative. Find the corresponding potential and hence the work done by this field in displacing a particle from (1, -2, 1) to (3, 1, 4) [8]

   b) Find the constants a and b such that the surfaces $5x^2 - 2yz - 9z = 0$ *and* $ax^2 + by^3 =$ 4cut each other orthogonally at (1, -1, 2) [6]

OR

10. a) Verify the Green's theorem for $\oint -y^3dx + x^3dy$ over the boundary of the circle $5x^2 + 5y^2 = 8$ taken counter clockwise [8]

    b) Evaluate by Stokes theorem $\oint \vec{F}.dr$ for the field $\vec{F} = (x^2 + y^2)i - 2xyj$ taken around the rectangle with vertices at (0, 0), (2, 0), (2, 6) and (0,6) [6]

Code No.: 80B07 **MR18**

MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)

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Gundlapochampally (H), Maisammaguda (V), Medchal (M), Medchal-Malkajgiri (Dist), Hyderabad

I B.TECH II SEMESTER SUPPLEMENTARY EXAMINATIONS, DECEMBER-2019

Subject: **ENGINEERING PHYSICS**

Branch: **COMMON TO CE,ME,MINING**

Time: 3 hours **Max. Marks: 70**

Answer all questions **5X14M=70 Mark**

1. a) Differentiate between free and damped motion. Give an example of each. [8M]
   b) Distinguish between the mechanical and electrical oscillators. [6M]

OR

2. Consider the wave $y=2.2\cos(300t-0.24x)$. If the units of y, *and* x are *mm,ec and metres* respectively. Deduce (i) the amplitude (ii) frequency (iii) wave velocity (iv) the amplitude of particle velocity.
3. Distinguish between Fresnel and fraunhofer diffraction. Discuss the Fraunhofer diffraction at a double slit. What is the effect on diffraction pattern by changing:
   (a) The slit width keeping the slit separation constant.
   (b) The slit separation keeping the slit width constant?

OR

4. a) Give the differences between interference and diffraction. [3M]
   b) The sodium yellow doublet has wavelengths 5890 Å and 5896 Å. What should be the resolving power of a grating to resolve these lines? [3M]
   c) Deduce the conditions for maxima and minima for diffraction at a single slit. [8M]
5. a) Write notes on dielectric theory of piezoelectricity. Mention the applications of piezoelectric materials [4M]
   b) Define electronic polarization and derive expression for electronic polarizability. [7M]
   c) Find dielectric constant of dielectric material if the electric field of 10^5 V/m is applied and polarization of a dielectric material positioned within a parallel-plate capacitor is $4.0X\ 10^{-6}\ C/m^2$. [3M]

OR

6. a) expression for the internal field seen by an atom in an infinite array of atoms subjected to an external field. [10M]
   b) Calculate the electronic polarizability of argon atom. Given, εr=1.0024 at NTP is N= 2.7 × 1025 atoms/m³. [4M]

7. a) Define Total internal reflection and acceptance angle [4M]

b) Discuss the modes step and graded index fibers and their structures. [10M]

OR

8. a) Explain the terms [3M]

i) Spontaneous emission ii) Temporal coherence.

b) Derive the relation between Einstein's "A" and "B" coefficients. [4M]

c) describe the construction and working of Ruby laser. [7M]

9. a) Explain origin of magnetic moments in magnetic materials. [4M]

b) Explain whether or not all electrons have net magnetic moment, with valid reasons. Find magnitude of magnetic moment due to orbital motion of electron in s and p orbitals. Explain reasons why He, Ne, and Ar do not show permanent magnetism. [3M]

c) Explain Hysteresis effect shown by ferromagnetic material with neat sketch. [7M]

OR

10. a) Define the following: [8M]

i) Soft magnetic materials ii) Hard magnetic materials iii) Meissner effect.

b) The magnetic field in the interior of a certain solenoid has the value of $6.5 \times 10{-}4$ T When the solenoid is empty. When it is filled with iron, the field becomes 1.4T. Find the relative permeability of iron. [6M]

Code No.: 80201 | MR18

MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)

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Gundlapochampally (H), Maisammaguda (V), Medchal (M), Medchal-Malkajgiri (Dist), Hyderabad

I B.TECH II SEMESTER SUPPLEMENTARY EXAMINATIONS, DECEMBER-2019

Subject: **BASIC ELECTRICAL & ELECTRONICS ENGINEERING**

Branch: **COMMON TO EEE,ECE,CSE,IT**

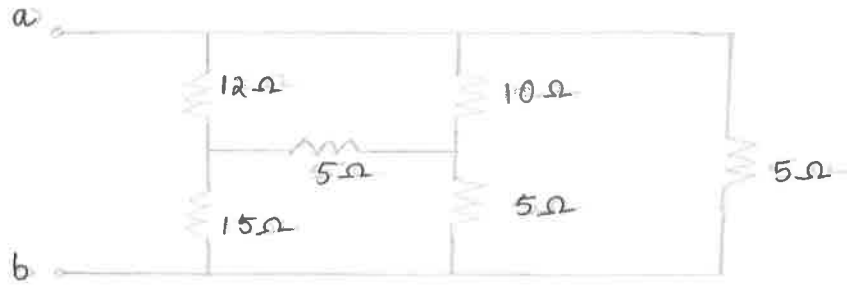
Time: 3 hours **Max. Marks: 70**

Answer all questions **5X14M=70 Mark**

1. a) Derive Star to Delta and Delta to Star Transformation [8M]
   b) State and explain KCL and KVL [6M]

OR

2. a) Obtain the equivalent resistance R_{ab} for the circuit in Fig. below [8M]



   b) State and explain Maximum power transfer theorem. [6M]
3. a) A resistor and a capacitor in series are connected to a 120 V, 60 Hz supply. The impedance of the circuit is 86 ohms and the power consumed is also 86 W. Determine the value of R and C. [6M]
   b) Explain analysis of single phase RLC series circuit. [8M]

OR

4. a) Explain analysis of single phase pure capacitive circuit. [8M]
   b) In a circuit equation of instantaneous voltage v=141.4sin(2/3)t volt.find i)average value ii) RMS value iii) form factor. [6M]
5. a) Explain principle of operation of Three-phase Induction motor? [7M]
   b) A 4-pole motor is fed at 440V and takes an armature current of 50A. The resistance of armature circuit is 0.28Ω. Armature winding is wave connected with 880 conductors and useful flux/pole is 0.023wb. Calculate speed of motor. [7M]

OR

6. a) Explain the working principle of DC generator. [7M]
   b) With the help of neat diagram, illustrate how Brake test is done on DC shunt Motor? [7M]
7. a) Explain Full wave center tapped rectifier with neat sketch. [10M]
   b) Explain Temperature dependence of diode. [4M]

OR

8. a) Compare Half wave rectifier and Full wave rectifier in any four aspects. [8M]
   b) Explain about the working of Inductor Filters, and Capacitor Filters [6M]
9. Explain Briefly about CB connection. Draw input and output characteristics and explain how they are obtained.

OR

10. a) Explain construction, principle of operation and V-I characteristics of Depletion MOSFET. [10M]
    b) Comparison between JFET and MOSFET. [4M]

Code No.: 80501 **MR18**

MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)

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Gundlapochampally (H), Maisammaguda (V), Medchal (M), Medchal-Malkajgiri (Dist), Hyderabad

I B.TECH II SEMESTER SUPPLEMENTARY EXAMINATIONS, DECEMBER-2019

Subject: **PROGRAMMING FOR PROBLEM SOLVING**

Branch: **COMMON TO CE,ME,MINING**

Time: 3 hours **Max. Marks: 70**

Answer all questions **5X14M=70 Mark**

1. a) What are the programming development steps. explain. [5M]
   b) What is a preprocessor directive? Explain with an example. [5M]
   c) What are formatted input and output statements in C? Give suitable examples. [4M]

OR

2. a) What is an algorithm? What are the characteristics of an algorithm? Write an algorithm for given number is even or odd. [6M]
   b) What are the differences between hardware and software. [4M]
   c) Write a program to display the smallest of three integers using conditional operators [4 M]

3. a) Explain about break and continue with an example.
   b) Write a C program to find Fibonacci series of a given number 'N' by using iteration and recursion separately.

OR

4. a) Compare the use of if-else construct with that of conditional operator. Explain with examples.
   b) Write a program to find the transpose of given matrix.

5. a) Explain about the pointer arithmetic with examples.
   b) Write a program to find whether the given string is palindrome or not.

OR

6. a) How to create array of strings? Explain with suitable example. [6M]
   b) Write a C program to find sum of array elements using pointers. [8M]

7. a) What is recursion? Explain. Write a recursive function to generate Factorial of a given number.
   b) Discuss about array of structures.

OR

8. a) Discuss the storage classes in C with example. [5M]
   b) Write a C program to create employee information using structures. [5M]
   c) Explain how 'enum' is differing from 'typedef'? Give an example. [4M]

9. a) How to read from and write to a file? Explain with examples. [5M]
   b) Explain binary search method with an example. [5M]
   c) List the advantages of using files. [4M]

OR

10. a) Write a procedure for selection sort for a given list of integers 5 10 4 3 0 1 12 20 2 7.
    b) What are the various modes in which a file can be opened?

Code No.: 80503 **MR18**

MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)

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Gundlapochampally (H), Maisammaguda (V), Medchal (M), Medchal-Malkajgiri (Dist), Hyderabad

I B.TECH II SEMESTER SUPPLEMENTARY EXAMINATIONS, DECEMBER-2019

Subject: **DATA STRUCTURES**

Branch: **COMMON TO EEE,ECE,CS & IT**

Time: 3 hours **Max. Marks: 70**

Answer all questions **5X14M=70 Mark**

1. a) Explain 'complexity of an algorithm' and 'space time tradeoff of algorithm. **(6M)**

   b) An algorithm runs a given input of size *n*. When *n* is 4096 the run time is 512 milliseconds. Also when *n* is 16384, the run time is 2048 milliseconds. What is the complexity? What is the big-O-notation? **(4M)**

   c) Compute the average case complexity of linear search algorithm. **(4M)**

OR

2. a) How do you find the complexity of an algorithm? What is the relation between the time and space complexities of an algorithm? Justify your answer with an example. **(7M)**

   b) The running time of an algorithm is represented by the following recurrence relation.

$$T(n) = \begin{cases} n & \text{if } n \le 3 \\ T\left(\frac{n}{3}\right) + cn & \text{otherwise} \end{cases}$$

   Find the time complexity. (4M)

   c) Consider the following statement **(3M)**

```
intJ,K,p;
float q, r, a;
a = J/K;
p = q/r;
```

   If q = 7.2, r = 2, J = 3, K = 2, find the value of a and p.

3. a) What is Linked-List? How it is different from Array?

   b) Suppose LIST is a header (circular) list in memory. Write an algorithm which deletes the last node from LIST.

OR

4. a) Define Single Linked List? How can you insert and delete elements in a single linked list? (6M)

   b) Write an algorithm to search a particular data element in a doubly linked list. (4M)

   c) What are the operations on a single linked list? (4M)

5. a) Write an algorithm for evaluating a postfix expression and evaluate the following postfix expression using the algorithm AB+CD/AD-EA^ + * where A=2, B=7, C=9, D=3, E=5 [10M]

   b) Write an algorithm for reversing list. [4M]

OR

6. a) Explain in brief about implementation of Queue using Arrays.

   b) Explain in brief about Infix to post fix conversion.

7. Write a C program to create a binary tree, traverse it using recursive operation like in-order, pre-order and post-order and display the result of each one separated.

OR

8. Explain in brief about the operations and properties of a Binary tree.

9. a) Compare a between B-Tree and Binary Search Tree. [4M]

   b) What is OBST? Write a C program to implement insertion and deletion from Binary Search operations. [10M]

OR

10. Discuss in brief about B tree, Red black and splay trees.

Code No.: 80301 **MR18**

MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)

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I B.TECH II SEMESTER SUPPLEMENTARY EXAMINATIONS, DECEMBER-2019

Subject: **ENGINEERING GRAPHICS**

Branch: **COMMON TO EEE,ECE,CSE,IT**

Time: 3 hours **Max. Marks: 70**

Answer all questions **5X14M=70 Mark**

1. a) Construct a regular octagon with 75 mm side.
   b) Describe a regular hexagon about a given circle of 60 mm diameter.

OR

2. Construct a hyperbola when the distance of the focus from the directrix is equal to 70mm and eccentricity is 4/3.

3. Draw the projections of a 75 mm long straight line in the following positions: (i) Parallel to the both HP & VP and 25mm from each (ii) Perpendicular to the HP and 20 mm in front of the VP and its one end 15 mm above the HP (iii) Inclined at 45^0 to the VP, in the HP and its one end in the VP.

OR

4. a) A rectangular plane surface of size 60mm x 20mm is positioned in the first quadrant and is inclined at an angle of 60^0 with the HP. Draw its projections.
   b)A square of 40mm side is inclined at an angle of 30^0 with the HP. Draw its projections.

5. A hexagonal prism of base edge 35mm and axis 65mm lies on HP with its base edge parallel to VP. It is cut by a plane perpendicular to HP and inclined at 30 degree to VP passes through a point 8mm away from the axis. Draw the sectional elevation and true shape of the section.

OR

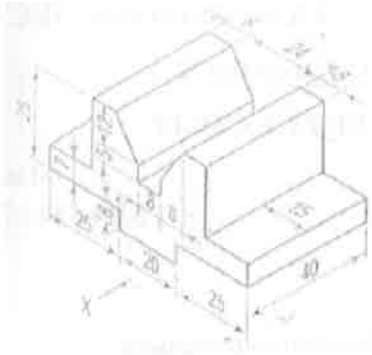
6. A cylinder of base 40 mm diameter & 65 mm height is resting on its base on HP and axis of the cylinder makes an angle of 45^0 to HP. Draw the projections.

7. a) Draw the development of a square pyramid of side of base 30mm and 70mm long axis.
   b) Draw the development of a square prism of side of base 40mm and 60mm long axis.

OR

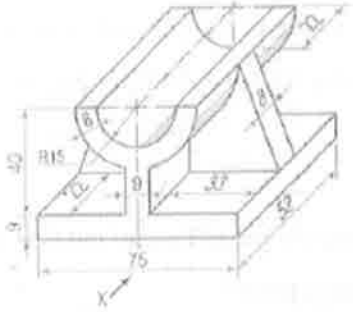
8. A solid is in the form of a cylinder of base diameter 50 mm up to a height of 60 mm and Draw the isometric projection of the solid.

9. Draw the Isometric view for the following Orthographic views.



OR

10. Draw the elevation, top view and side view of the objects shown in figures.
(All dimensions are in mm).



Code No.: **80B03** | **MR18**

MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)

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I B.TECH II SEMESTER SUPPLEMENTARY EXAMINATIONS, DECEMBER-2019

Subject: **ENGINEERING CHEMISTRY**

Branch: **Common to EEE,CSE&IT**

Time: 3 hours **Max. Marks: 70**

Answer ALL questions of the following **5x14 M= 70M**

1. a) Write the BIS- specifications of potable water?
   b) Write a short note on Internal treatment of phosphate and carbonate conditioning.

OR

2. a) Calculate the total hardness interms of ppm, °clork, °french containing the following dissolved salts per liter. $MgCl_2$=19mg; $Ca(HCO_3)_2$=32.4mg;$CaCl_2$=11.1mg;$MgSO_4$=60mg; $Mg(HCO_3)_2$=7.3mg [10M]
   b) Write a short note ozonization. [4M]

3. a) What are the salient features of Molecular orbital theory? Explain the significance of bonding and antibonding orbitals?
   b) $[Co\ F_6]^{-3}$ is paramagnetic whereas $[Co(CN)_6]^{-3}$ is diamagnetic explain .

OR

4. a) Compare the bond order and magnetic properties of O_2,F_2 and N_2
   b) Define low-spin complex and high-spin complexes with suitable examples.

5. a) Define fuel cell. Explain the construction and working of H_2-O_2 fuel cell. Write advantages and limitations of fuel cells.
   b) Describe the various factors influencing rate of corrosion?

OR

6. a) Write a note on i) Water line corrosion ii) Galvanic corrosion
   b) Explain electroless plating in detail.

7. a) Explain cis-trans nomenclature of geometrical isomerism with suitable examples?
   b) Define isomerism? Explain chain isomerism with suitable example.

OR

8. a) Write a short note on i) Optical activity ii) Specific rotation [8M]
   b) Write a short note on chemical shift. [6M]

9. a) Write the synthesis and mechanism of Ibuprofen.
   b) Write pharmaceutical applications of Ibuprofen.

OR

10. a) Explain the synthesis and mechanism of Nylon-6. [10M]
    b) Mention order of reactivity of alkyl halide for SN^1 and SN^2 reactions. [4M]

Code No.: **80B03** | **MR18**

MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)

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I B.TECH II SEMESTER SUPPLEMENTARY EXAMINATIONS, DECEMBER-2019

Subject: **ENGINEERING CHEMISTRY**

Branch: Common to **CSE&IT**

Time: 3 hours **Max. Marks: 70**

Answer ALL questions of the following **5x14 M= 70M**

1. a) Write the BIS- specifications of potable water?
   b) Write a short note on Internal treatment of phosphate and carbonate conditioning.

OR

2. a) Calculate the total hardness interms of ppm, °clork, °french containing the following dissolved salts per liter. $MgCl_2$=19mg; $Ca(HCO_3)_2$=32.4mg;$CaCl_2$=11.1mg;$MgSO_4$=60mg; $Mg(HCO_3)_2$=7.3mg [10M]
   b) Write a short note ozonization. [4M]

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OR

4. a) Compare the bond order and magnetic properties of O_2,F_2 and N_2
   b) Define low-spin complex and high-spin complexes with suitable examples.

5. a) Define fuel cell. Explain the construction and working of H_2-O_2 fuel cell. Write advantages and limitations of fuel cells.
   b) Describe the various factors influencing rate of corrosion?

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7. a) Explain cis-trans nomenclature of geometrical isomerism with suitable examples?
   b) Define isomerism? Explain chain isomerism with suitable example.

OR

8. a) Write a short note on i) Optical activity ii) Specific rotation [8M]
   b) Write a short note on chemical shift. [6M]

9. a) Write the synthesis and mechanism of Ibuprofen.
   b) Write pharmaceutical applications of Ibuprofen.

OR

10. a) Explain the synthesis and mechanism of Nylon-6. [10M]
    b) Mention order of reactivity of alkyl halide for SN^1 and SN^2 reactions. [4M]

Code No.: **80H01** | **MR18**

MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)

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I B.TECH II SEMESTER SUPPLEMENTARY EXAMINATIONS, DECEMBER-2019

Subject: **ENGLISH**

Branch: **ME**

Time: 3 hours **Max. Marks: 70**

Answer ALL questions of the following **5x14 M= 70M**

1. a) Write short notes on the following **[10M]**
   i. Importance of skimming in reading.
   ii. How does scanning help the reader understand the text better.
   b) Write meanings for the following roots and frame a word using the root. **[4M]**
   i. cracy
   ii.im
   iii.eer
   iv. pre

OR

2. a) What are the basic purposes of reading? How could one improve one's reading efficiency? **[8M]**
   b) Explain in detail the chief characteristics of effective writing. **[6M]**
3. a) Dr. Abdul Kalam expresses the need to rediscover the ancient Indian Culture that had an abundant wealth of knowledge. Explain. [10M]
   b) Convert the following sentences [4M]
   i) The Secretary has given Mrs Jones some letters (change into passive voice)
   ii) The dog was frightened by the sudden noise (change into active voice)
   iii) Knocking at the gate, he demanded admission. (change into compound sentence)
   iv) Blinded by a dust storm, they lost their way. (change into complex sentence).

OR

4. a) Critically examine the theme of the poem *Life* written by Sarojini Naidu. **[8M]**
   b) Write a paragraph on 'Moral education'. (Word limit: 100 words) **[6M]**
5. a) What kind of moral is conveyed through the character **Subbiah** as a rice merchant in R.K. Narayan's story. **[10M]**
   b) Fill in the blanks with suitable form of the verbs(s) given in brackets. **[4M]**
   i) We -------- her once. (have met/have been meeting)
   ii) Rakesh is tired. He------for a week. (has travelled/ has been travelling).
   iii) The machine-------for almost ten hours.(has run/has been running)
   iv) He---------- here since 2010 (has been work)

OR

6. a) Write an essay on 'the impact of Media' on the rural areas. **[7M]**
   b) Write the summary of the poem 'IF' **[7M]**

7. a) Draft a letter addressing the Municipal Commissioner complaining about the increasing number of street dogs in your locality. **[8M]**

b) i) Choose the correct one word substitute for A person appointed by parties to settle the disputes between them ' **[1M]**

A. Solicitor B. Arbitrator C. governess D. Tee to taller

ii) Choose the correct one word substitute for One who is easily deceived ' **[1M]**

A. Gullible B. Militant C. Sinecure D. Fastidious

iii) Choose the correct one word substitute for the phrase' One who questions everything **[1M]**

A. Insolvent B. Cynic C. Enigmatic D. Cynosure

c) Choose question tags **[3M]**

i. They are sick -----

ii. Children like cakes to eat ----------

iii. They are poor----------

OR

8. a) Discuss the discriminations that Jesse Owens faced during his life-time. **[10M]**

b) Convert the following sentences: **[2M]**

(i) Very few cities in India are so big as Madras.(change into comparative degree)

(ii) No other metal is so useful than any other metal. (change into superlative degree)

c) Give synonym and antonym for the following words. **[2M]**

(i) terrified (give synonym)

(ii) succeed (give antonym)

9. a) My friend... You can easily prove that you are as good as he is". Explain the Context and the significance of Barnum's advice. **[7M]**

b) According to Burnam what kind of people can attain ""pecuniary Independence"? **[7M]**

OR

10. a) Do you think the title of the poem *Human Family* is apt? Write your views. **[10M]**

b) Convert the sentences given below to **direct speech**: **[4M]**

(i) Raavan declared that he preferred death to dishonor.

(ii) He said that he had to leave then.

(iii) He told us that we mustn't smoke in the bus.

(iv) He asked me why I had not eaten anything.