

B.Sc.(Non-Medical) – 3rd SEMESTER EXAMINATIONS; DECEMBER - 2017
(SUB:-ADVANCED CALCULUS; PAPER CODE:-09010301)

TIME: 03:00 Hrs.

Max Marks:40

Instructions:-

1. Write your Roll No. on the Question Paper.
2. Candidates should ensure that they have been provided with correct question paper. Complaints in this regard, if any should be made within 15 minutes of the commencement of the exam. No complaint(s) will be entertained thereafter.
3. Attempt **five (05)** questions in all, **Q1.** is compulsory. Students are required to attempt four **(04)** questions, selecting at least one **(01)** question from each unit. Marks are indicated against each question.
4. Draw the diagram wherever required.

Q.1. Answer all the following questions:-

(4X2=8)

- a) Write the statement of Euler's theorem.
- b) Define the limit and continuity of real valued functions of two variables.
- c) Write the Rolle's theorem.
- d) Apply Talor's Series to expand $\cos x$.

UNIT-I

Q.2. a) If $u(x+y) = x^2 + y^2$, Prove that $\left(\frac{\partial u}{\partial x} - \frac{\partial u}{\partial y}\right) = 4\left(1 - \frac{\partial u}{\partial x} - \frac{\partial u}{\partial y}\right)$ (4)

b) If $u = \log(x^3 + y^3 + z^3 - 3xyz)$; show that $\left(\frac{\partial}{\partial x} + \frac{\partial}{\partial y} + \frac{\partial}{\partial z}\right) u = -\frac{9}{(x+y+z)^2}$ (4)

OR

Q.3. a) Define Uniform continuity and chain rule of differentiability. (4)

b) State and prove Lagrange's mean value theorem. (4)

UNIT-II

Q.4. a) $f(x, y) = \frac{x^3 - y^3}{x^2 + y^2}$ where $x \neq 0$ and $f(x, y) = 0$ when $x = 0, y = 0$. (4)

find out whether the function $f(x, y)$ is continuous at origin.

b) State and prove Euler's theorem. (4)

OR

Q.5. a) Find the total differential coefficient of $x^2 y$ w.t.x when x, y are connected by $x^2 + xy + y^2 = 1$. (4)

b) The altitude of a right circular cone is 15 cm and is increasing at 0.2cm/sec. The radius of the base is 10 cm and is decreasing at 0.3cm/sec. How fast is the volume changing. (4)

UNIT-III

Q.6. a) Show that minimum value of $u = xy + \frac{a^3}{x} + \frac{a^3}{y}$ is $3a^2$. (4)

b) What do you understand by singular points of a curve $f(x, y) = 0$ Investigate. Singular points of the curve $y^2 - x(x-a)^2 = 0$ (4)

OR

Q.7. Use the method of Lagrange's multiplier to find the volume of the largest rectangular parallelepiped that can be inscribed in the ellipsoid $\frac{x^2}{a^2} + \frac{y^2}{b^2} + \frac{z^2}{c^2} = 1$ (8)

B.Sc.(Non-Medical) – 3rd SEMESTER EXAMINATIONS; DECEMBER - 2017
(SUB:- PARTIAL DIFFERENTIAL EQUATIONS; PAPER CODE:-09010302)

TIME: 03:00 Hrs.

Max Marks:40

Instructions:-

1. Write your Roll No. on the Question Paper.
2. Candidates should ensure that they have been provided with correct question paper. Complaints in this regard, if any should be made within 15 minutes of the commencement of the exam. No complaint(s) will be entertained thereafter.
3. Attempt five (05) questions in all, Q1. is compulsory. Students are required to attempt four (04) questions, selecting at least one (01) question from each unit. Marks are indicated against each question.
4. Draw the diagram wherever required.

Q.1. Answer all the following questions:-

(4X2=8)

- a) Write two-dimensional wave equation and Laplace equation.
- b) Obtain the PDE by eliminating a and b from $a(x^2 + y^2) + bu^2 = 1$.
- c) Solve the equation $(D - D'^4)u = 0$.
- d) Give geometrical interpretation of quasi-linear Lagrange's equation (PDEFO).

UNIT-I

Q.2. Explain how by elimination of arbitrary constants one can obtain a PDEFO. Eliminate a and b from $u = ax^3 + by^3$ to form a PDEFO. (8)

OR

Show that the two-parameter family of curves $u - ax - by - ab = 0$ satisfy the nonlinear linear PDEFO:

$$xp + yq + pq = 0. \quad (8)$$

- Q.3. a) Solve by using Charpit's method: $u = p^2x + q^2y$ or $p = (qy + u)^2$ (4)
- b) What are the possible integrals of a PDEFO: $f(x, y, u, a, b) = 0$ and under what condition a singular integral is possible? (4)

UNIT-II

- Q.4. a) Solve the equation: $(D^2 - 2DD' - 15D'^2)u = 12xy$ (4)
- b) For a PDE: $f(D, D')u = 0$ of n^{th} with constant coefficient what are the possible cases of derivation of complementary function and discuss any one case. (4)

Q.5. Show that the minimal surface equation $(1 + u_y^2)u_{xx} - 2u_xu_yu_{xy} + ((1 + u_x^2)u_{yy}) = 0$ is elliptic. What are the possible classification of linear PDESO with variable coefficients? Discuss any one case. (8)

OR

Rewrite the hyperbolic equation $y^2u_{xx} - x^2u_{yy} = 0$ in canonical form. (8)

P.T.O.

UNIT-III

Q.6. Explain what do understand by separation of variables method and what are its short comings of the method. Apply the method in solving equation:

$$\nabla^2 u + k^2 u = u_{xx} + u_{yy} + u_{zz} + k^2 u = 0 \quad (8)$$

Q.7. What are the possible forms of a classification of a Hyperbolic equation. Rewrite the hyperbolic equation : $x^2 u_{xx} - y^2 u_{yy} = 0 (x > 0, y > 0)$.

(8)

OR

Show that $u = \log \sqrt{x^2 + y^2}$ is a solution of the equation $u_{xx} + u_{yy} = 0$ (8)

Sr. No: 10048

Roll No _____

B. Sc. (NON MEDICAL) – 3rd SEMESTER EXAMINATION; DECEMBER - 2017

[SUB: - STATICS; PAPER CODE: 09010303]

Time: 3 Hrs.

Max. Marks: 40

Instructions:-

1. Write your Roll No. on the Question paper.
2. Candidates should ensure that they have been provided correct question paper. Complaints in this regard, if any, should be made within 15 minutes of the commencement of the exam. No complaint(s) will be entertained thereafter.
3. Attempt Five (5) Questions in all, Question No. 1 is compulsory. Attempt other 4 questions selecting one question from each unit. All question carry equal marks
4. Draw diagram wherever required.

Unit 1

Q1(a). Explain the following

- (i) Parallelogram Law
- (ii) Lami's Theorem
- (iii) Principle of Virtual Work
- (iv) Stable and Unstable Equilibrium

Q1(b). AB and AC are two strings 9m and 12m long attached to pegs B and C at a horizontal distance 15m apart. Find the tension in the strings when a weight of 10 kg is suspended from A.

Q1(c). Forces P, 3P, 2P, 5P act along the sides AB, BC, CD & DA of a square ABCD. Find the magnitude and direction of their resultant and prove that it meets AD produced at a point E such that AE:DE=5:4

Q1(d). A uniform beam, of thickness '2b', rests symmetrically on a perfectly rough horizontal cylinder of radius 'a'. Show that equilibrium of the beam will be stable or unstable according as 'b' is less or greater than 'a'. (2*4=8)

Unit 2

Q2(a). State and Prove $\lambda - \mu$ theorem. (4)

Q2(b). State and prove Triangle law of Forces. (4)

Q3(a). A string of length l is fastened to two points A, B at the same level and at a distance 'a' apart. A ring of weight W can slide on the string and a horizontal force P is applied to it such that it is in equilibrium vertically below B. Show that $P = \frac{aW}{l}$ and tension of the string is $\frac{W(l^2 + a^2)}{2l^2}$. (4)

Q3(b). Two like parallel forces P and Q (P>Q) act upon a rigid body at A and B respectively. Let P and Q be interchanged in position, then show that the point of application of the resultant will be displaced through a distance x along AB given by $x = \frac{P-Q}{P+Q} AB$ (4)

Unit 3

Q4(a). Three forces P, Q, R act along the sides BC, CA & AB of a triangle ABC. Show that if their resultant passes through

- (i) The Incentre, then $P+Q+R=0$
(ii) The Circumcentre, then $P \cos A + Q \cos B + R \cos C = 0$
(iii) The centroid, then $P \operatorname{cosec} A + Q \operatorname{cosec} B + R \operatorname{cosec} C = 0$ (6)

Q4(b). Two equal forces forming a couple are of magnitude 24N each and the arm of the couple is 12 m. Find the magnitude of each of an equivalent couple whose arm is 8m. (2)

Q5(a). If G is a point in the side AB of a triangle OAB and if OG divides AB into two parts 'm' and 'n' and the angle AOB into two parts α and β , then

$$(m+n) \cot \theta = m \cot \alpha - n \cot \beta$$

$$(m+n) \cot \theta = n \cot A - m \cot B \quad (4)$$

Q5(b). A body of weight 50 kg rest on a horizontal table and is acted upon by a force of 20 kg making an angle of 30° with the horizontal. Find the magnitude of force of friction that is called into action. If the co-efficient of friction between the table and the body is $\frac{2}{3}$, find the least force acting in the same direction which will drag the body along the table.

(4)

Unit 4

Q6(a). Find the centre of gravity of

- (A) a rod of length 'a'
(B) an uniform triangular lamina (4)

Q6(b). Equal forces act along the co-ordinate axes and the straight line $\frac{x-\alpha}{l} = \frac{y-\beta}{m} = \frac{z-\gamma}{n}$. Find the equation of the central axis of the system where $\langle l, m, n \rangle$ are directional cosines of the line. (4)

Q7(a). Show that a given system of forces can be replaced by two forces, equivalent to the given system, in an infinite number of ways. (4)

Q7(b). Find the null point of the plane $x+y+z=0$ for the force system $(X, Y, Z; L, M, N)$. (4)

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Sr.No. 1001119

Roll No. _____

B.Sc.(Non-Medical) – 3rd SEMESTER EXAMINATIONS; DECEMBER - 2017
(SUB:- OPTICS; PAPER CODE:-09010304)

TIME: 03:00 Hrs.

Max Marks:40

Instructions:-

1. Write your Roll No. on the Question Paper.
2. Candidates should ensure that they have been provided with correct question paper. Complaints in this regard, if any should be made within 15 minutes of the commencement of the exam. No complaint(s) will be entertained thereafter.
3. Attempt **five (05)** questions in all, **Q1.** is compulsory. Students are required to attempt four **(04)** questions, selecting at least one **(01)** question from each unit. Marks are indicated against each question.
4. Draw the diagram wherever required.

Q.1. Answer all the following questions:-

(4X2=8)

- a) Two narrow parallel slits 0.5×10^{-3} in part are illuminated by a monochromatic light of wavelength 5890 \AA . Calculate the width of the fringes which are obtained on a screen distant 0.5 m from the slit.
- b) Differentiate between spherical aberration and coma.
- c) What is Rayleigh's resolution?
- d) Define quarter wave plate.

UNIT-I

Q.2. Derive system matrix for thick and thin lenses.

(8)

Q.3. a) Derive condition for achromatism of two lenses placed in contact.

(4)

b) What are aplanatic points? Deduce them.

(4)

UNIT-II

Q.4. What are Newton's rings? Describe & explain the formation of Newton's rings in reflected monochromatic light. Prove that the diameter of bright rings is proportional to the square root of odd natural numbers.

(8)

Q.5. Explain how interference fringes may be obtained with the help of Fresnel's biprism. How is thickness of a thin mica sheet found using Fresnel's biprism.

(8)

UNIT-III

Q.6. a) Discuss Fraunhofer diffraction at a single slit.

(4)

b) Define Resolving power of a diffraction grating and deduce an expression for it.

(4)

Q.7. Discuss Huygen's wave theory of double refraction.

(8)

Sr.No. 100450

Roll No. _____

B.Sc.(Non-Medical) – 3rd SEMESTER EXAMINATIONS; DECEMBER - 2017
(SUB:- THERMODYNAMICS; PAPER CODE:-09010305)

TIME: 03:00 Hrs.

Max Marks:40

Instructions:-

1. Write your Roll No. on the Question Paper.
2. Candidates should ensure that they have been provided with correct question paper. Complaints in this regard, if any should be made within 15 minutes of the commencement of the exam. No complaint(s) will be entertained thereafter.
3. Attempt **five (05)** questions in all, **Q1.** is compulsory. Students are required to attempt four **(04)** questions, selecting at least one **(01)** question from each unit. Marks are indicated against each question.
4. Draw the diagram wherever required.

Q.1. Answer all the following questions:-

(4X2=8)

- a) Explain the zeroth law of thermodynamics.
- b) Define 1st law of thermodynamics. What is the physical significance of it?
- c) Show that the Gibb's function remains constant in an isothermal-isobaric process.
- d) Explain Nernst's Heat theorem.

UNIT-I

- Q.2. a) What is indicator diagram? Derive relation for work done during an adiabatic process. (4)**
b) State and derive Kirchoff's equation. (4)

OR

- Q.3. a) Derive relation for Joule Thomson Coefficient in a perfect gas case. What is the importance of it? (4)**
b) State and derive relation for inversion temperature. What is the significance of it? (4)

UNIT-II

- Q.4. a) State & prove the Carnot's theorem. A Carnot's engine whose temperature of the source is 400 K takes 200 calories of heat at this temperature and rejects 150 calories of heat to sink. What is the temperature of the sink? (4)**
b) What is 2nd law of Thermodynamics? How Lord Kelvin obtained absolute scale of temperature from a study of the efficiency of a reversible engine and application of 2nd law of Thermodynamics? Define absolute zero temperature. (4)

OR

- Q.5. a) Explain entropy & its physical significance. Show that $\delta Q/T = 0$ for adiabatic process. Calculate the change in the entropy when 5kg of water at 100°C is converted into steam of the same temperature. (Given: latent heat of the steam = 540 cal/gram). (4)**
b) Describe in brief different methods of liquefaction of gases. (4)

P.T.O.

UNIT-III

- Q.6. a) Deduce Maxwell's thermodynamic relations by making use of the first and second laws of thermodynamics. (4)
- b) Derive the relation between the specific heats at constant pressure & volume for Vander Waals' gas using Maxwell thermodynamic relations. (4)

OR

- Q.7. a) State & Derive the Clausius-Claperyron latent heat equation. On the basis of this equation explain the effect of pressure on boiling point of liquid. Calculate change in the boiling point of water for 27.12 mm of Hg rise in pressure. The normal boiling point of water is 100°C and latent heat of steam is 537 cal/g and specific volume of steam is 1674 cm³. (4)
- b) Explain Halmoltz and Gibbs function in thermodynamics with their significance. Derive relations for Halmoltz function in the isothermal-isochoric process and for Gibbs function in the isothermal-isobaric process. (4)

Sr. No: 10451

Roll No _____

B. SC. (NON MEDICAL.) – 3rd SEMESTER EXAMINATION; DECEMBER - 2017

[SUB: - INORGANIC CHEMISTRY-III ; PAPER CODE: 09010307]

Time: 3 Hrs.

Max. Marks: 40

Instructions:-

1. Write your Roll No. on the Question paper.
2. Candidates should ensure that they have been provided correct question paper. Complaints in this regard, if any, should be made within 15 minutes of the commencement of the exam. No complaint(s) will be entertained thereafter.
3. Attempt Five (5) Questions in all, Question No. 1 is compulsory. Attempt other 4 questions selecting at least one question from each unit. All question carry equal marks
4. Draw diagram wherever required.

Q1. (a) Why elements belonging to 3d series are transition elements?

(b) Write the electronic configuration of Ag and Mo.

(c) Calculate the EAN of $[\text{Fe}(\text{CN})_6]^{4-}$

(d) Give an example of non aqueous solvent and an example of acid-base reaction in that solvent.

(4X2=8)

UNIT-I

Q2. (a) Why d-block elements show variable oxidation states?

(b) Why does Ag form Ag^+ and not Ag^{2+}

(c) Write one method of preparation and one use of $\text{Ni}(\text{CO})_4$

(d) Explain the mechanism of lanthanide contraction with proper examples.

(4X2=8)

Q3. (a) State two important properties of TiO_2 and its method of preparation.

(b) Write the electronic configuration of all the elements in first transition series.

(4X2=8)

UNIT-II

Q4. Compare the properties of first, second and third transition series with respect to its metallic character of their oxides and oxidation state.

(8)

Q5. (a) How does mercury differ from its other group members like Cd and Zn? How is the group different from other groups.

(b) How many oxidation states are exhibited by Cr in its compounds? Give one examples of each.

(4X2=8)

UNIT-III

Q6. (a) If EAN of each Mn-atom in $\text{Mn}_2(\text{CO})_{10}$ is 36. Draw the structure of carbonyl.

(b) Explain the postulates of Werner's coordination theory with proper illustrations.

(4X2=8)

Q7. (a) Give an example of a non aqueous solvent. Explain at least two reactions in that solvent with proper balanced equation.

(b) Discuss the reducing nature of Na in liquid ammonia.

(4X2=8)

10451/40

B. SC. (NON MEDICAL.) – 3rd SEMESTER EXAMINATION; DECEMBER - 2017**[SUB: - PHYSICAL CHEMISTRY-III; PAPER CODE: 09010308]****Time: 3 Hrs.****Max. Marks: 40****Instructions:-**

1. Write your Roll No. on the Question paper.
2. Candidates should ensure that they have been provided correct question paper. Complaints in this regard, if any, should be made within 15 minutes of the commencement of the exam. No complaint(s) will be entertained thereafter.
3. Attempt Five (5) Questions in all, Question No. 1 is compulsory. Attempt other 4 questions selecting at least one question from each unit. All question carry equal marks
4. Draw diagram wherever required.

Q1. Explain briefly:

- (a) Bond Energy
- (b) Inversion Temperature.
- (c) The process of hydrolysis
- (d) What does reaction isotherm tell us

(4X2=8)**UNIT-I****Q2. (a) State first law of thermodynamics in two different ways. Derive mathematical expression for it. Explain the fact that internal energy is a state function but heat and work are not.****(6)****(b) State and explain briefly Joule's law.****(2)****Q3. What do you intend Derive that for reversible Adiabatic expansion of an ideal gas.****(a) $PV^\gamma = \text{constant}$ (b) Work done, $w = c_v(T_2 - T_1)$** **(8)****UNIT-II****Q4. (a) What do you understand by chemical potential?****(2)****(b) Give thermodynamic derivation of law of chemical equilibrium.****(6)****Q5. Derive Clausius-Clapeyron equation. Discuss its application to solid vapour equilibrium****(5,3)****UNIT-III****Q6. (a) Explain Nernst distribution law qualitatively.****(b) How do you determine the equilibrium constant of potassium trioxide complex with the help of distribution law.****(2,6)****Q7. How does the distribution law get modified when solute undergoes?**

- (a) Dissociation.
- (b) Association.

(4X2=8)

**B.SC. (NON – MEDICAL) – 3RD SEMESTER EXAMINATION;
DECEMBER-2017
(SUBJECT- ORGANIC CHEMISTRY-III ; PAPER CODE- 09010309)**

Time : 03:00 Hours

Maximum Marks –40

Instruction :

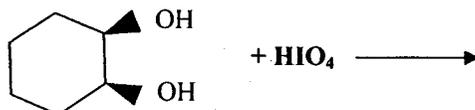
1. Write your Roll No. on the question paper.
2. Candidate should ensure that they have been provided with correct question paper. Complaints in this regard, if any, should be reported to the invigilator on duty in the examination hall within 15 minutes of the commencement of the exams. No complaints shall be entertained thereafter.
3. Attempt FIVE (05) questions in all, Q.1 is compulsory and Students are required to attempt four (04) question, selecting One (01) question from each Unit. Marks are indicated against each question.
4. Draw diagram wherever required.

Q1. Answer all the following questions:

- a) o-Nitro phenol is less water soluble than p-Nitro phenol. Explain (2)
- b) Alcohols show higher boiling point than hydrocarbons. Explain (2)
- c) Define the terms red shift and blue shift. (2)
- d) Why trichloroacetic acid is 10000 times stronger than acetic acid. (2)

UNIT-I

- Q2. a) Give mechanism of :- (2x3=6)
- i) Base catalysed hydrolysis of epoxides
 - ii) Pinacol-pinacolone rearrangement
- b) Write down the correct product in the following reaction. (2)



- Q3. a) Write the mechanism of the following (4)
- i) Hydroboration-oxidation.
 - ii) Oxymercuration-demercuration.
- b) What is oxidative cleavage of glycols. Discuss its utility in determining structure of glycols. (4)

UNIT-II

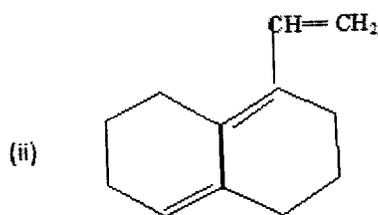
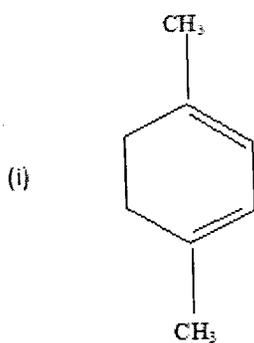
- Q4. a) Discuss mechanisms of (2x3=6)
- i) Schotten and Baumann reaction
 - ii) Reimer –Tiemann reaction
- b) Convert- (2)
- i) Phenol to 2,4,6-Tribromophenol
 - ii) Phenol to o-Hydroxybenzaldehyde

P.T.O.

- Q5. a) Discuss mechanism of amide formation from carboxylic acid (3)
b) Discuss the mechanism of Hell-Volhard-Zelinsky reaction (3)
c) Discuss mechanism of Kolbe's reaction (2)

UNIT-III

- Q6. a) What is beer – lambert law? Give its mathematical expression and significance of each term. (3)
b) Define terms- (3)
i) Chromophore
ii) Auxochrome
c) What is effect of hydrogen bonding on UV absorption. (2)
- Q7. a) Explain various types of electronic transitions when organic compound is exposed to UV radiations (3)
b) Explain the differences between Hyperchromic and Hypochromic shift. (2)
c) Use the Woodward-Feiser rules to predict the λ_{\max} values for the following structures. (3)



**B.SC. (NON – MEDICAL) – 3RD SEMESTER EXAMINATION; DECEMBER-2017
(SUBJECT- PROFESSIONAL COMMUNICATION ; PAPER CODE- 090103010)**

Time : 03:00 Hours

Maximum Marks –40

Instruction :

1. Write your Roll No. on the question paper.
2. Candidate should ensure that they have been provided with correct question paper. Complaints in this regard, if any, should be reported to the invigilator on duty in the examination hall within 15 minutes of the commencement of the exams. No complaints shall be entertained thereafter.
3. Attempt FIVE (05) questions in all, Q.1 is compulsory and Students are required to attempt four (04) question, selecting One (01) question from each Unit. Marks are indicated against each question.
4. Draw diagram wherever required.

Q1. Answer all the following questions:

- a) Differentiate between complex and compound sentence. (2)
- b) Define syllable and phonemes. (2)
- c) What is paragraph? Point out its three basic components. (2)
- d) Write the definition of Idiom with two suitable example. (2)

UNIT-I

Q2. a) Choose the word that is nearest opposite in meaning to the word in capital letter. (4)

1. ESSENTIAL a. Extra b. Noughts c. Minors d. Trivial	2. HYPOCRITICAL a. Gentle b. Sincere c. Amiable d. Dependable	3. PRELIMINARY a. Final b. First c. Secondary d. Initial	4. STATIONARY a. Active b. Mobile c. Rapid d. Busy
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b) Choose the synonym for the following words. (4)

1. UNITE a. Unfold b. Unchain c. Combinc d. Unhinge	1. DISTINCTION a. Diffusion b. Disagreement c. Different d. Degree	2. SYNOPSIS a. Index b. Mixture c. Summary d. Puzzles	3. PONDER a. Think b. Evaluate c. Anticipate. d. Increase
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Q3. a) Transform the following sentences into indirect sentences. (4)

- i) The Professor said, 'I am not comfortable today+
- ii) Shashi said to Manoj, 'You look nice in this dress,'
- iii) 'may I have a little more sugar' , said the girl.
- iv) He said to me, 'do write to me soon'.

b) Fulfill the blank space with suitable prepositions. (4)

- i) The lady was dressed ... black..
- ii) She is very careful --- her health.
- iii) He depended --- his friend's word.
- iv) I have been waiting here --- two hours.

UNIT-II

- Q4. a) Identify the idioms/phrases in the following sentences and explain them in plain English. (4)
- i) Everyman is part and parcel of the society.
 - ii) They said nothing with regard to this case.
 - iii) He tried on and on until he succeeded.
 - iv) I helped him to the utmost.
- b) Write two sentences on the following homophones (4)
- i) Bank
 - ii) Light
 - iii) Fine
 - iv) Capital
- Q5. a) Write one word for the following sentences. (4)
- i) A plot of land that does not grow anything.
 - ii) List of books or other articles.
 - iii) One who takes a bright view of things.
 - iv) An instrument for measuring temperature.
- b) Change the following sentences into passive voice. (4)
- i) Her work satisfied me.
 - ii) Kindly lend me hundred rupees.
 - iii) They must write memorandum.
 - iv) When will you post the letter.

UNIT-III

Q6. Read the passage.

At this stage of civilization, when many nations are brought in to close and vital contact for good and evil, it is essential, as never before, their gross ignorance of one another should be diminished, that they should begin to understand a little of one another's historical experience and resulting mentality. It is the fault of the English to expect the people of other countries to react as they do, to political and international situations. Our genuine goodwill and good intentions are often brought to nothing, because we expect other people to be like us. This would be corrected if we knew the history, not necessarily in detail but in broad outlines, of the social and political conditions which have given to each nation its present character.

- a) Write the summary of the given text. (4)
- b) Define conjunction. Find out the connectives (conjunctions) in this passage. (4)
- Q7. a) What is the difference between vowel and consonant sound? Illustrate the IPA chart. (4)
- b) What is coherence? Discuss the points to develop coherence in a paragraph. (4)
