Seat Number					





कठस्थ - 008

T 1.2.2

## Pharmaceutical Chemistry - II (Inorganic & Physical Chemistry) (Also Old Sem.- II Equivalence 125) (1220)

P. Pages: 2

Time: Three Hours

Max. Marks

## Instructions to Candidates:

1. Do not write anything on question paper except Seat No.

- Do not write anything on question paper except Seat No.
   Graph or diagram should be drawn with the black ink pen being used for paper or black HB pencil.
   Students should note, no supplement will be provided.
   All questions are compulsory.
   Figures to the right indicates full marks.
   Draw well labelled diagrams wherever necessary.

  SECTION I
  Solve any five.
  a) Define radiopharmaceuticals with example.

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Define radiopharmaceuticals with example.

- b) What is Dental Fluorosis?
- What is B.A.L? State its use.
- Define tableting aids with example
- Define Bacteriostatics and Sactericidal with example.
- Why hydrogen peroxide acts as oxidizing and Reducing agent?
- shidote? State components and their role.

2. Solve any four.

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- State mechanism of action for Emetics and Expectorants and give properties preparation and uses for Ammonium chloride or Copper Sulphate.
- What A cyanide poisoning? Elaborate puritanism and treatment.
- Wite a note on Radio-Opaque contrast media.

befine Anticarrier Agents. Explain role of Fluorides in treatment of dental carries.

Define Topical Antimicrobial Agents. Classify them with examples, explain mechanisms in short.

1

P.T.O

10

f) Define with examples: Sclerosing Agents ii) Complexing Agents iii) Sequestering agents iv) **Astringents** 3. Solve any one. 10 Define Topical Agents? Classify them in detail with examples. Explain Define Radiopharmaceuticals. Enlist methods for their production and chambers used for measurement of radioactivity. Add note on Biological Effects or Quality control of radiopharmaceuticals. mechanism and uses for protective Adsorbents with properties, Preparation, SECTION - II 1. Solve any five. Enlist gas laws. State universal gas equation. Define first order reaction with example.

State Beers- Lamberts Law.

Define catalysis state types with examples. b) c) d) f) State uses of P-32 and I-125. State characteristics of Enzyme catal 2. Solve any four. 20 Define second order and Third order reaction. Explain first order reaction. b) State postulates of Kinetic Deory of gases. What is Quantum mechanics? Enlist postulates and operators. d) Explain Acid- Base Homogeneous catalysis. Explain consequences for absorption of Light by molecule. Enlist methods for determination of order of reaction explain any one. 3. Solve any one 10 Enhal and explain theories of reaction Kinetics. Draw well labelled Jablensk's Diagram and explain relaxation mechanisms for excited state molecules.

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