

00816

16172

3 Hours / 80 Marks

Seat No.

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- Instructions :**
- (1) All Questions are *compulsory*.
  - (2) Answer each next main Question on a new page.
  - (3) Illustrate your answers with neat sketches wherever necessary.
  - (4) Figures to the right indicate full marks.
  - (5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

**Marks**

**1. Solve any EIGHT :**

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- (a) Define (any two) :
  - (i) ADR
  - (ii) Patient compliance
  - (iii) Hospital pharmacy
- (b) Give the normal values of (any two) :
  - (i) Creatinine
  - (ii) Blood cholesterol
  - (iii) Sperm count
- (c) Translate following terms in English (any two) :
  - (i) Utendus
  - (ii) Guttae
  - (iii) Omni Mane

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**P.T.O.**

- (d) Give the uses of (any two) :
  - (i) ECG
  - (ii) Aneurysm needle
  - (iii) Ryle's tube
- (e) Explain term first pass effect.
- (f) Define Hallucinogen. Write effects of LSD.
- (g) Write the requirement of number of pharmacists in a Hospital Pharmacy.
- (h) What are Elite hospitals ?
- (i) Give the objectives of Inventory Control.
- (j) What advice must be given to the patient using (any two) :
  - (i) Tetracycline
  - (ii) Bisacodyl
  - (iii) Phenytoin
- (k) What is BAL ? Mention its use.
- (l) Distinguish between small volume parenterals and large volume parenterals.

**2. Attempt any FOUR of the following :**

**12**

- (a) Define clinical pharmacy. Draw a chart/diagram indicating role of clinical pharmacist in the hospital.
- (b) State the objectives of Hospital Pharmacy.
- (c) Write signs, symptoms and treatment of opium poisoning.
- (d) Write the uses of :
  - (i) Crepe Bandage
  - (ii) Plaster of Paris Bandage
  - (iii) Zinc paste Bandage
- (e) Give the methods of estimating demand of product in hospital.
- (f) Enumerate the reasons for patient Non-compliance.

**3. Attempt any FOUR of the following :****12**

- (a) Classify hospital according to clinical parameters with examples.
- (b) Give the meaning of following terms (any three) :
  - (i) Emetics
  - (ii) Cholagogue
  - (iii) Gout
  - (iv) Hypoxia
- (c) Explain any three factors affecting bioavailability.
- (d) Explain with examples Drug-food interactions.
- (e) Describe the role of PTC in drug safety.
- (f) What is rheumatoid arthritis ? Describe the pathophysiology of RA.

**4. Attempt any FOUR of the following :****12**

- (a) Define parenterals. Describe the following test for evaluation of parenteral solution : Sterility test OR Pyrogen test.
- (b) How drug abuse is treated ?
- (c) Write sources of collection of drug information at DIC.
- (d) Explain the use of computer in inventory control in hospital pharmacy.
- (e) Explain term : 'Teratogen'. Give any two examples of teratogenic drugs along with its teratogenic effects.
- (f) What is (i) Lithotripsy, (ii) Lane's tissue forcep, (iii) MRI ?

**5. Attempt any FOUR of the following :****12**

- (a) Describe the processing of parenterals.
- (b) Write pathophysiology of heart attack. Write the clinical manifestations of it.
- (c) What is the role of nursing department in hospitals ?

**P.T.O.**

- (d) Discuss the guiding principles of hospital formulary system.
- (e) List the withdrawal symptoms and write treatment of morphine dependence.
- (f) Explain terms (any three) :
  - (i) Bioavailability
  - (ii) Relative bioavailability
  - (iii) Clinical equivalence
  - (iv) Therapeutic equivalence

**6. Attempt any FOUR of the following :**

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- (a) Define Drug Interaction. Explain what will happen when following drug administered together :
    - (i) Folic acid with Phenytoin
    - (ii) Digitalis with Diuretics
    - (iii) Alcohol with Disulfiram
  - (b) Draw the diagram of I.V. set. Describe the functions of its components.
  - (c) Write a note on :
    - (i) DIB
    - (ii) Satellite pharmacy
  - (d) Discuss economic factors governing the manufacture and purchase decision in production in hospital pharmacy.
  - (e) Write the dose and uses of Dimercaprol and Desferrioxamine in toxicology.
  - (f) How is dispensing of charged floor stock carried out ? Write any two advantages and disadvantages of complete floor stock system.
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