

2024

HOSPITAL & CLINICAL PHARMACY**Full Marks: 80****Time Allowed: 3 Hours****Answer all questions as directed.**

10x1=10

1. Choose the correct alternative (any ten):

- i) Minimum floor size required for a Hospital Pharmacy is -- a) 350 sq.ft, b) 300 sq.ft, **c) 250 sq.ft**, d) 200 sq.ft.
- ii) Minimum qualification for registration as Pharmacist is-- **a) Pharm D**, b) D Pharm, c) B Pharm, d) M Pharm
- iii) Drugs for Emergency Box in wards should contain -- a) Atropine Sulphate 0.4mg/ml, b) Digoxin 0.25mg/ml, c) Both a & b, **d) None of a & b.**
- iv) Benefits of eTender are -- a) Reduced cost, b) No Paperwork, **c) Both a & b**, d) None.
- v) Which one is not a NDPS drug --a) Codeine, **b) Dobutamine**, c) Heroine, d) Morphine
- vi) ILR stands for -- **a) Ice Lined Refrigerator**, b) Internal Laboratory Refrigerator, c) Imported Laboratory Refrigerator, d) Ice Locked Refrigerator.
- vii) LASA drugs -- **a) Look alike, sound alike**, b) Look alike, smell alike, c) Both a & b, d) None.
- viii) Services provided for immediate medical attention or in an accidental case -- a) Primary care, **b) Emergency care**, **c) Secondary care**, d) Referral care.
- ix) Drug incompatibility can be classified into -- a) Physical incompatibility, b) Chemical incompatibility, **c) Therapeutic incompatibility**, **d) All of them.**
- x) A male patient aged 45 years with HbA1c value 8.5% is: **a) Diabetic**, b) Normal, c) Pre-diabetic, d) Borderline diabetic
- xi) I^{131} is used in the treatment of: **a) Thyroid Cancer** b) Breast Cancer c) Colon Cancer, d) all of them.

2. Fill in the blanks: (any ten)

10x1=10

- i) QCI stands for _____.
- ii) The drug whose activity is affected due to interaction with another drug is called _____ drug.
- iii) A 300 bed hospital should have _____ number of Pharmacists
- iv) IVF is the abbreviated form for _____.
- v) Drugs given to the patients through the nursing station is called _____ system
- vi) The full form of MRI is _____.
- vii) _____ acts as the secretary of the Pharmacy and Therapeutic Committee.
- viii) Spirometry test is done to test _____ function.
- ix) Hypokalemia is caused due to lower than normal levels of _____.
- x) TPN is the abbreviated form for _____.
- xi) Vials of Insulin injection should be stored at temperature range of _____ °C

3. Answer the following questions (any ten):

10x3=30

- i) Explain the terms FEFO and FIFO used in inventory control.
- ii) A large hospital has a fixed demand for 15000 Oxygen Masks /year. The ordering cost per order is ₹20/- and the holding Cost for this inventory is ₹0.50 per unit. Calculate the EOQ per order using Wilson Formula.
- iii) Write a brief note on the storage and dispensing requirements for NDPS drugs in a Hospital Pharmacy.
- iv) Define Pharmacovigilance. Give its aim and scope.
- v) Why is an ILR used at PHC for storage of vaccines?
- vi) Write a short note on Satellite Pharmacy.
- vii) Explain the term LASA medicines with examples.
- viii) Define with examples- high risk medicines, emergency drugs and reserved antibiotics.
- ix) Write a note on activated charcoal in the management for poisoning.
- x) Write a short note on liver function tests.
- xi) Enumerate the role of pharmacists in preventing antimicrobial resistance.

4. Answer the following questions (any six):

6 x 5 = 30

- a) Define Clinical Pharmacy. Discuss in detail the role of a clinical pharmacist.
- b) Describe in details the different types of medication errors and their prevention.
- c) Write a note on Arsenic Poisoning symptoms and its treatment.
- d) Give criteria for selection of charge floor stock drugs. Give its advantages and disadvantages.
- e) Write in detail about the dispensing, storage and disposal of Radiopharmaceuticals.
- f) Describe the Vaccine Cold Chain Distribution Network System in India by a flow diagram. What dispensing requirements for Schedule H1 drugs are to be followed by a Hospital Pharmacist?
- g) What is TPN? Write in detail about the composition of TPN.