

**Instructions:**

1. Write the Roll no. on your question paper.
  2. Candidate should ensure that the question paper supplied to them is complete in all respects. Complaints in this regards, if any, should be made to the invigilatory staff on the duty in the exam centre within 15 minutes of Commencement of the exam. No complaint shall be entertained thereafter.
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**(Section: A)**

**Q. A Multiple - Choice Questions:**

**(5)**

**1. The main advantage of IV admixtures is .....**

- |                                  |  |
|----------------------------------|--|
| (a) Reduce the expiration period | (b) Decrease risk of bacterial contamination |
| (c) Quick onset of action        | (d) Reduce risk of incompatibility           |

**2. Drug incompatibilities can reduce .....**

- |                 |                   |
|-----------------|-------------------|
| (a) Drug nature | (b) Drug shape    |
| (c) Drug taste  | (d) Drug activity |

**3. Radiopharmaceuticals have short .....**

- |                                |                          |
|--------------------------------|--------------------------|
| (a) Physical specific activity | (b) Physical body        |
| (c) Daughter nucleus           | (d) Physical half - life |

**4. For handling liquid radioactive materials ..... must be used.**

- |                   |             |
|-------------------|-------------|
| (a) Rubber gloves | (b) Forceps |
| (c) Tissue paper  | (d) Glasses |

**5. MAR stands for.....**

- |                                       |                                       |
|---------------------------------------|---------------------------------------|
| (a) Medication Administration Routine | (b) Medication Allergy Response       |
| (c) Medication According Records      | (d) Medication Administration Records |

**Q. B Fill in the blanks:**

**(5)**

1. Pharmacists utilise the .....together information about diseases and related drug therapies for their patients.
2. Use of computer system aim to .....
3. Clinical Pharmacy services were initiated in India.
4. .... is the process in which the pharmacist gives information and advise the patients or their care takes regarding the proper use of medications.
5. .... is a feeding method that bypasses the GIT.

**(Section: B)**

**Q. C Short Answer Type Questions: (Attempt any five)**

**(3 × 5 = 15)**

1. Write short notes.

(a) Preparation of IV admixtures                      (b) TPN.

2. Advantages and disadvantages of IV admixture.

3. Define the following!

(a) Inventory control                      (b) Electronic health record                      (c) Therapeutic drug monitoring

4. Explain the inventory control and medication monitoring by Pharmacists.

5. Give thy short note on:

(a) Treatment chart review                      (b) Adverse drug reaction monitoring

6. Give details about how records are maintained by using computers.

**(Section: C)**

**Q. D Long Answer Type Questions: (Attempt any three)**

**(5 × 3 = 15)**

1. Briefly describe about electronic health records.

2. Discuss the diagnostic and therapeutic applications of radiopharmaceuticals.

3. Briefly describe the bulk compounding in hospital.

4. Discuss the complications, contraindications and composition of TPW.