

**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. A chemical molecule in a Pharmaceutical product that offers the therapeutic effect the product claim to have is called as .....**

- |                            |                          |
|----------------------------|--------------------------|
| (a) Bulk Compounding       | (b) Drug Counselling     |
| (c) Nutrition distributing | (d) Narcotics dispensing |

**2. Which type of incompatibility occurs when drugs are administered simultaneously, resulting in unwanted antagonistic or synergistic Pharmacological action?**

- |                                  |                                 |
|----------------------------------|---------------------------------|
| (a) Therapeutic in compatibility | (b) Chemical in compatibility   |
| (c) Physical in compatibility    | (d) Biological in compatibility |

**3. GDF stands for:**

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| (a) Geological Divide Facilities  | (b) Geological Decompose Facilities |
| (c) Geological Disposal Functions | (d) Geological Disposal Facilities  |

**4. NSDF stands for:**

- |                                     |                                     |
|-------------------------------------|-------------------------------------|
| (a) Near Surface Decompose Facility | (b) Near Surface Disposal Functions |
| (c) Near Surface Disposal Facility  | (d) Near Surface Destroy Facility   |

**5. Use of computer system aims to .....**

- |                       |                       |
|-----------------------|-----------------------|
| (a) Increase business | (b) Easy compounding  |
| (c) Reduce paper work | (d) Easy distributing |

**Q. B Fill in the blanks: (5)**

1. The pus in urine is called as .....
2. The word dyspnoea means .....
3. .... regulates the economic aspects of hospital pharmacy manufacturing program.
4. .... is a feeding method that bypasses the GIT.
5. For handling liquid radioactive materials ..... must be used.

**(Section: B)**

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

**(3 × 5 = 15)**

1. Discuss the Physical, chemical and therapeutic incompatibility in IV admixture incompatibilities.
2. Define the following terms:
  - (a) Compounding
  - (b) Bulk Compounding
  - (c) IV admixture services
  - (d) Total parenteral nutrition
3. Explain the ideal characteristics and disposal of radio - pharmaceuticals.
4. Give details about how records are maintained by using computers.
5. Define patient counseling. Discuss the role of pharmacists in patient counseling.
6. Give short notes on:
  - (a) Patient counseling
  - (b) Pharmaceutical care

**(Section: C)**

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

**(5 × 3 = 15)**

1. Briefly explain the development of clinical Pharmacy in India and other countries.
2. Briefly describe the daily activities of clinical pharmacists.
3. Briefly describe about electronic health records.
4. Briefly explain the handling, storage and dispensing of radiopharmaceuticals.