



Name :

Roll No. :

Invigilator's Signature :

**CS/B.Pharm/SEM-5/PT-506/2009-10
2009**

PHARMACEUTICS (HOSPITAL PHARMACY)

Time Allotted : 3 Hours

Full Marks : 70

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

GROUP – A

(Multiple Choice Type Questions)

1. Choose the correct alternatives for any *ten* of the following :

10 × 1 = 10

- i) What is the temperature range for cool temperature ?
 - a) 2°C – 8°C
 - b) 8°C – 25°C
 - c) 30°C – 40°C
 - d) Above 40°C.
- ii) The minimum area of medical store is
 - a) 200 – 300 sq. ft.
 - b) 300 – 400 sq. ft.
 - c) 400 – 500 sq. ft.
 - d) 600 – 1000 sq. ft.
- iii) What is the correct sterilization condition in autoclave ?
 - a) 115°C – 10 lbs/sq. inch for 5 minutes
 - b) 110°C – 15 lbs/sq. inch for 10 minutes
 - c) 121°C – 15 lbs/sq. inch for 15 minutes
 - d) 105°C – 15 lbs/sq. inch for 15 minutes.

55428

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CS/B.Pharm/SEM-5/PT-506/2009-10



- iv) What is the unit of radio activity ?
- a) Coulombs b) Curie
c) Volt d) Watt.
- v) Which among the following is not a technique for inventory control ?
- a) V.E.D. analysis b) V.A.D. analysis
c) E.O.Q. d) A.B.C. analysis.
- vi) What is the effective air velocity of HEPA filter ?
- a) 100 ± 20 ft/min b) 120 ± 20 ft/min
c) 180 ± 20 ft/min d) 130 ± 20 ft/min.
- vii) Which one among the following is a teralogen throughout pregnancy ?
- a) Steroids b) Reserpine
c) Anti-histamine d) Insulin.
- viii) What do you mean by Idiosyncray ?
- a) Abnormal drug response
b) Normal drug response
c) Toxic reaction of drug
d) None of these.
- ix) Ambulatory patient is
- a) not able to walk b) able to walk
c) in emergency d) O.T. patient.

55428

2



- x) Biological indicator used for sterilization using autoclave is
- a) *Bacillus subtilis*
 - b) *Bacillus steriothermophilus*
 - c) *E. coli*
 - d) none of these.
- xi) Chemical used for leakage test is
- a) Methanol
 - b) Methylene blue
 - c) Pet ether
 - d) Mannitol solution.
- xii) Drug basket method is used in which drug distribution system ?
- a) Out patient drug distribution system
 - b) Complete floor stock system
 - c) Unit dose drug distribution system
 - d) None of these.

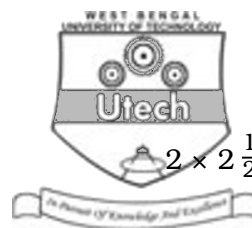
GROUP – B

(Short Answer Type Questions)

Answer any *three* of the following. $3 \times 5 = 15$

2. What is PTC ? Discuss its role in drug safety and in adverse drug reaction. 1 + 4
3. What is a hospital ? Mention the functions of a hospital. 1 + 4
4. Explain the role of a hospital administrator.

CS/B.Pharm/SEM-5/PT-506/2009-10



5. Explain the following : $2 \times 2 \frac{1}{2}$
- Buffer stock
 - Lead time.
6. Draw a layout plan, location and flowchart of man and materials in pharmacy setup of a 750 bed hospital.

GROUP - C

(Long Answer Type Questions)

Answer any *three* of the following. $3 \times 15 = 45$

7. a) What are radio-pharmaceuticals ? What is tagging ?
b) What are the special room requirements for preparation of radio isotopes in a laboratory.
c) Discuss radition hazards and their preventive measures. $1 + 1 + 7 + 6$
8. a) What are drug information services ? Give the functions of drug information services in hospital pharmacy.
b) Discuss the application of computer in hospital pharmacy. $7 + 8$
9. a) Explain in detail about formulation of parenterals.
b) Explain different types of laminar air flow clean room system. $8 + 7$
10. What do you mean by drug interaction ? Give three examples of pharmacokinetic interaction. Define idiosyncrasy & hypersensitivity with two examples of each. Discuss the role of pharmacist in monitoring adverse drug reaction. $2 + 3 + 5 + 5$
11. Write short notes any *three* of the following : 3×5
- Drug dependence and drug abuse
 - Limitation of pyrogen test
 - Communication skill of clinical pharmacist
 - Patient non-compliance.