



Name : .....

Roll No. : .....

Invigilator's Signature : .....

**CS/B.Pharm (OLD)/SEM-5/PT-506/2010-11**

**2010-11**

**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) A new drug in the formulary can be added by
  - a) Chief hospital pharmacist
  - b) Doctor
  - c) Hospital administrator
  - d) Chief drugs & therapeutic committee.
  
- ii) In hospital stores, expired items are
  - a) kept separately
  - b) disposed off in ordinary dustbin
  - c) mixed together with items to be issued
  - d) kept outside the stores.

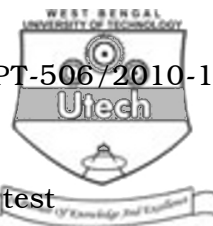
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- iii) Duties of Hospital pharmacist are to
- compound prepare & dispensing of medicines
  - monitoring rational use of drug
  - prevents ADRs
  - all of these.
- iv) Medication error are of
- 4 types
  - 5 types
  - 6 types
  - 2 types.
- v) Ethylene oxide sterilization requires ethylene oxide at
- 450 mg./litre
  - 45 mg./litre
  - 4500 mg. litre
  - none of these for complete sterilization.
- vi) The number of  $\alpha$ - and  $\beta$ - particles emitted in the nuclear reaction  ${}_{90}\text{Th}^{228} \rightarrow {}_{83}\text{Bi}^{212}$  are
- $4\alpha$  and  $1\beta$
  - $3\alpha$  and  $7\beta$
  - $8\alpha$  and  $1\beta$
  - $4\alpha$  and  $7\beta$ .
- vii) For a 200 bedded hospital, minimum no. of required pharmacists should be
- 3
  - 5
  - 8
  - 10.
- viii) Insulin preparations should be stored at
- cold temperature
  - freezing temperature
  - cool temperature
  - room temperature.
- ix) What is the volume of IV fluids in Large Volume Parentals ( LVP ) ?
- 10 ml & above
  - 50 ml & above
  - 100 ml & above
  - 500 ml & above.



- x) 'Sham test' is related with
- a) Sterility test                      b) Clarity test  
c) Pyrogen test                        d) Leakage test.
- xi) A patient is said to be an ambulatory if the patient
- a) bed-ridden  
b) can walk  
c) cannot walk  
d) comes with the help of ambulance.
- xii) Which of the following nucleus is unstable ?
- a)  ${}_5\text{B}^{10}$                                   b)  ${}_4\text{Be}^{10}$   
c)  ${}_7\text{N}^{14}$                                   d)  ${}_8\text{O}^{16}$ .

**GROUP - B**

**( Short Answer Type Questions )**

Answer any *three* of the following.                      3 × 5 = 15

2. What do you understand by the term "inventory" ? What are the objectives of inventory control ?                      2 + 3
3. What is hospital formulary ? Discuss in detail, the content of formulary.                      1 + 4
4. Explain the layout of a sterile product area.
5. What are the different types of tenders that are invited before purchasing any item ?
6. How are the drugs labelled in complete floor stock system ?



**GROUP – C**

**( Long Answer Type Questions )**

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

7. Define medication error. What are the different sources of medication errors ? What are the different strategies adopted to reduce the incidences of medication errors ?  $3 + 4 + 8$
8. Define radiopharmaceuticals with suitable examples. How will you design a production area for radio pharmaceuticals ? What do you understand by radiation dosimetry ?  $3 + 9 + 3$
9. a) What are radio isotopes ? Write the application of radio isotopes in diagnosis and treatment.  $8$
- b) Discuss the handling and storage of radio pharmaceuticals.  $7$
10. a) Define and classify hospitals. Discuss the functions and objectives of a hospital pharmacy.  $7$
- b) Draw a layout plan, location and flow chart of materials and men in a pharmacy set up of a 1000 bedded hospital.  $8$
11. a) Define class 100 clean room.  $4$
- b) What are the requirements for a personnel to work in an aseptic area ?  $4$
- c) Discuss various official quality control tests prescribed for a LVP preparation in hospital.  $7$

