

**Total number of printed pages – 4**      **B. Pharm**  
**PH. 6.1**

**Sixth Semester Examination – 2008**

**PHARMACEUTICS – V**

**Full Marks – 70**

**Time : 3 Hours**

*Answer Question No. 1 which is compulsory  
and any **five** from the rest.*

*The figures in the right-hand margin  
indicate marks.*



1. Answer the following questions in brief :  
2 × 10
- (a) Explain microencapsulation ?
  - (b) Name the propellants used in aerosols.
  - (c) By which route vaccines are generally administered ?

- (d) What material is usually used for closures of parenteral preparations ?
- (e) At what temperature the WFQ is stored in a parenteral manufacturing facility ?
- (f) What is the use of LAL test ?
- (g) Ophthalmic preparations need not be sterile. – Comment.
- (h) In the blood banks, the blood from do not is collected and stored in glass bottles usually. – Comment.
- (i) Glass containers in parenteral manufacturing facility are sterilised by autoclaving usually. – Comment.
- (j) The blood for transfusion is stored at 0 °C. – Comment.

2. Mention the different methods of preparing microcapsules and explain one of them in detail. What methods are followed for the evaluation of microcapsules ?      10

**P.T.O.**

**PH. 6.1**

**2**

**Contd.**

3. Give a layout for the manufacture of aerosols explaining the steps involved in their preparation. What are their advantages and drawbacks as pharmaceutical products ? 10
4. Explain about 'Blow fill seal technology' for the manufacture of LVP solutions ? 10
5. Write short notes on the following : 5+5
- (a) Parenteral filling area
  - (b) Evaluation of parenteral products.
6. Write short notes on the following : 5+5
- (a) Containers for ophthalmic preparations
  - (b) Contact lenses and their care and use.
7. Write short notes on the following : 5+5
- (a) Packaging components
  - (b) Packaging equipment.
8. Write short notes on the following : 5+5
- (a) Stability aspects of packaging
  - (b) Legal and official requirements for containers.
- 

**PH. 6.1**

**3**

**P.T.O.**

**PH. 6.1**

**4**

**- C**