



HCN-003-047503

Seat No. _____

**B. Voc. Pharm. Analysis & QA (Sem. V) (CBCS)
Examination**

October - 2017

BVPA QA - 503 : Pharmaceutical Technology - II

Faculty Code : 003

Subject Code : 047503

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

Instructions :

- (1) All questions are compulsory & carry equal marks.
- (2) Draw diagram and/or scheme wherever necessary.

1 (a) Answer the following questions : 10

1. Define Capsules.
2. What are binders ? Give example.
3. Give full form of HPMC and PEG.
4. Define Bioavailability.
5. What should be the amount of water in HG-C ?
6. What could be the best formulation for the powder with very poor compressibility ?
7. What does it mean by F, D and C colors ? How do they differ from the D and C colors ?
8. What are parenteral dosage forms?
9. What is Immunity ?
10. _____ vaccines consist of live bacteria or viruses which have been rendered avirulent, e.g. B.C.G. vaccine.

(b) Answer the following multiple choice questions : 20

1. Give examples for each of the followings.
 - a. Aqueous vehicle
 - b. Non-aqueous vehicle
 - c. Buffering agent.
 - d. Stabilizers.
2. Write about the ideal qualities of Excipients.
3. Enlist various ingredients used for the preparation of coating solution.

4. What are different methods for dosing of capsules ? Explain in brief.
5. Explain the structure of HGC with diagram.
6. What are different types of Surfactants? Give example for each.
7. Give difference between SVP and LVP.
8. Write about various advantages of Parenteral dosage forms ?
9. Differentiate Active immunity from Passive immunity.
10. What is BWFI? How does it differ from WFI ?

2 Answer any 4 out of the following 6 questions : **20**

1. Give a brief account on ideal requirements of parenteral formulation.
2. What are different ingredients used in the formulation of Tablets ? Explain with examples.
3. Classify Immunological preparations.
4. Write in detail about various steps involved in manufacturing of sterile (parenteral) preparations.
5. Write in detail formulation of liquid orals.
6. Give advantages and disadvantages of Tablets.

3 Answer any 4 out of the following 6 questions : **20**

1. Discuss the step by step process involved in the manufacturing of capsule shell.
2. Write in brief about various types of clean area.
3. Give advantages and disadvantages of capsules.
4. Explain in brief various types of Tablet.
5. Write in detail about the evaluation parameters of Tablets.
6. Explain different types of glasses.