



PAPER ID-310394

Subject Code: BP502T

Roll No:

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B PHARM
(SEM-V) THEORY EXAMINATION 2020-21
INDUSTRIAL PHARMACY-I

Time: 3 Hours

Total Marks: 75

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt all questions in brief.

10 x 2 = 20

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| a. | What do you mean by preformulation studies? |
| b. | How are drugs classified as per BCS? |
| c. | What is the role of binders in manufacturing tablets? |
| d. | Define super-disintegrants with examples. |
| e. | What are the various sizes of capsules available for human use? |
| f. | What do you mean by Bloom Strength? |
| g. | Explain significance of isotonicity in parenteral formulations. |
| h. | Define aseptic processing. |
| i. | What is the function of propellants in aerosol system? |
| j. | Define tamper evident packaging. |

SECTION B

2. Attempt any twoparts of the following:

2 x 10 = 20

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| a. | Discuss in detail about various tests which are generally done to maintain the quality control of tablets. |
| b. | What are the advantages of capsules as dosage form? Discuss in detail about various mechanisms of filling powders in hard gelatin capsules. |
| c. | Classify different types of Parenteral products. How are parenteral products evaluated for quality control? |

SECTION C

3. Attempt any fiveparts of the following:

7 x 5 = 35

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| a. | What is the significance of pka and pH in preformulation studies? |
| b. | Discuss the principle and working of Rotary tablet press in detail. |
| c. | How is coating of tablets beneficial? Discuss working of a coating pan. |
| d. | Elaborate the process of manufacturing of hard gelatin capsule shell. |
| e. | How are dry powders for injection prepared by Lyophilization? |
| f. | What are the various components of Aerosol product? Explain significance of each. |
| g. | Discuss various quality control tests of Glass as a packaging material. |