

Ref. No. : Ex/Pharm/T/221/2017

Name of the Examination: B. PHARM., 2nd Year, 2nd Semester, Examination, 2017.

Subject: Pharmaceutics – IV

Time: 3 hours

Full Marks: 100

Answer any *five* questions taking at least one from each group.

GROUP – A

1. (i) Write an explanatory note on the importance of particle size and related surface area in the field of pharmacy and medicine.
(ii) Write short note on methods of determining particle size. (10+10)

2. Write short notes on the following related to powders:
 - (i) Porosity
 - (ii) Packing Arrangements
 - (iii) Density of Particles
 - (iv) Bulkiness (5x4)

3. What are the different approaches that may be adopted to make the cohesive powder mass free flowing? Mention few parameters which indicate excellent flow properties. (20)

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SUBJECT: PHARMACEUTICS IV

GROUP – B

Full marks: 30/10

Time: Three hours

- 4) (a) Define cosmetics. Write down the importance of shampoo. Elaborate the parameters for evaluation of shampoo? 3+3+4
(b) Elaborate how shaving soap cream is assessed? 5
(c) Write a note on Nail Enamel Removers 5
- 5) (a) Classify creams. Elaborate the various types of creams 3+7
(b) Elaborate the various ingredients used in tooth paste preparation. 5
(c) Write a note on the various performance tests for tooth paste. 5

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30/10

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Answer each group in separate answer script

Answer the following questions (at least one from the following group):

GROUP - C

6. Define radiopharmaceuticals. Write their importance as diagnostic and therapeutic tools. Write about the specific quality control tests of radiopharmaceuticals. What are Gray and Rad? Write the principles of working of radioisotope generators, plie method and cyclotrons. Describe solid state barrier detector with the principle of functioning.

$$1+3+3+2+6+5 = 20$$

7. Define sutures and ligatures. Classify them with examples. Give the ideal characteristics of them. What is a cat gut? Why is it named so? How is it prepared? Mention various materials used for preparation of sutures and ligatures. What do you mean by bandages? Provide the ideal characteristics of bandages. Give some examples of standard bandages.

$$1+1+5+1+1+3+2+1+5+1 = 20$$