Ref. No. : Ex/Pharm/T/221/2018

Name of the Examination: B. PHARM., 2nd Year, 2nd Semester, 2018.

Subject: Pharmaceutics – IV **Time**: 3 hours **Full Marks**: 100

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

GROUP – A

1. (i) Define Micromeritics. Why it is so important in the field of pharmacy and medicine.
   (ii) Write the principle involved in Andreasen pipette & Coulter Counter machine.
   (14+6)

2. (i) Write short notes on the various derived properties powders. (16+4)
   (ii) Write short note on Scanning Electron Microscopy)

3. Mention the various factors which may increase or decrease the flow properties of powder? Mention few parameters which indicate excellent flow properties.
   (20)

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B. PHARM. 2nd YEAR 2nd SEMESTER SUPPLEMENTARY EXAMINATION, 2018

SUBJECT: PHARMACEUTICS IV

GROUP – B

Full marks: 30/100
Time: Three hours

4. (a) Define manicure preparations. Enlist the satisfactory characteristics of the film in nail lacquer preparations. 2+8

   (b) Differentiate between deodorants and antiperspirants. Elaborate body odour and its control. 4+6

5. (a) What are the ideal characteristics required in lipsticks? 5

   (b) Elaborate the desirable attributes required for pre- electric shave lotions. 5

   (c) What do you understand by detergency in Shampoo bases? How are these bases evaluated? With a suitable composition example explain clear liquid shampoo. 2+4+4

B. PHARMACY SECOND YEAR SECOND SEMESTER EXAM 2018

Subject: PHARMACEUTICS-IV

Answer any five of the following questions, taking at least one from each group.

Full marks: 100 **Time 3 hours**

GROUP - C

6) Define radiopharmaceuticals with proper examples. Write their uses. Give the types of isotopes with examples. Provide the properties of alpha, beta particles and gamma-rays. What are Gray and rad? (Define them). How should we protect ourselves from the radiation of radiopharmaceuticals? Give the ideal characteristics of radiopharmaceuticals. What are the exclusive QC tests required for radiopharmaceuticals? (2+3+2+3+2+2+3+3=20)

7) How are radiopharmaceuticals manufactured? (Write in details). Give the methodsof detection of beta particles by GM counter and gamma radiation by solid state barrier system in details. Give the ideal characteristics of ligatures and sutures. 6+4+7+3 = 20