

DAQ-M202112

Seat No.

Third Year D. Pharm. Examination

May - 2022

Pharmaceutical Formulation

Time: 3 Hours [Total Marks: 70

Instructions

- (1) Figure to the right indicate marks.
- (2) Draw neat and clean diagram when required.
- 1 Answer the following questions:

 $10 \times 2 = 20$

- (1) Classify dosage forms with one example each.
- (2) What are enteric coating polymers? Name any two examples.
- (3) List the manufacturing defects of tablets.
- (4) Differentiate between hard gelatin and soft gelatin capsules.
- (5) What are disintegrants? Give two examples.
- (6) Classify vehicles used in parenteral.
- (7) Give name of ointment base with examples.
- (8) Define displacement value.
- (9) Define creaming and cracking.
- (10) Give 4 advantages of buccal drug delivery.
- 2 Answer any two out of the following questions:

 $2 \times 10 = 20$

- (1) (A) With a neat labeled diagram, explain the rotary compression process of tablet manufacturing.
 - (B) Describe the defects in the film coating process.
- (2) Explain the formulation of hard gelatin capsules. Give the quality control tests for hard gelatin capsules.
- (3) What are small volume and large volume parenteral? Write the qualitycontrol tests for parenteral formulation.

- 3 Answer any six out of the following questions: $6 \times 5 = 30$
 - (1) Classify granulation techniques. Describe the wet granulation method.
 - (2) Write the various tests for identification of types of emulsion'.
 - (3) Write a note on the manufacturing of hard gelatin capsule shell.
 - (4) Describe LAL test and rabbit method to determine the presence of pyrogens in parenteral products.
 - (5) Explain Quality control test for tablets.
 - (6) Write detail note on suppository.
 - (7) Explain different stages involved in sugar coating process of compressed tablets.
 - (8) Write the advantages and limitation of Novel drug delivery systems. Explain occuserts.