

Day: **Friday**
Date: **27/04/2018**

Time: **10.00 AM TO 01.00 PM**
Max. Marks: 60

S-2018-3935

N.B:

- 1) Q. No. 1 and Q. No. 5 are **COMPULSORY**. Out of the remaining attempt **ANY TWO** questions from each Section.
- 2) Answer to the both sections should be written in **SEPARATE** answer book.
- 3) Figures to the right indicate **FULL** marks.

SECTION –I

Q.1 Attempt **ANY FIVE** of the following: (10)

- a) Write productivity of tablet manufacturing per shift using 16 station rotary tablet machine
- b) Give the classification of powders according to particle size analysis
- c) Explain the significance of angle of repose and Carr's index test for granules
- d) Mention the essential characteristics of good face powder
- e) What are superdisintegrants? Give examples
- f) Water sensitive, unpleasant taste drug is to be formulated for patient of 3years age, suggest suitable formulation.

Q.2 a) Discuss the construction and working of high speed granulator. (07)

- b) Granules containing 10% moisture observes compression problems. Explain various related problems and remedies. (03)

Q.3 a) Tablet containing 800 mg drug is to be compressed, comment on possible difficulties in compression, ejection, patient compliance and ways to overcome these problems. (07)

- b) Suggest face powder formulation to be used in humid and tropical weather conditions (03)

Q.4 Write short note on **ANY TWO** of the following: (10)

- a) Oral antibiotic dry syrup
- b) Tooth powder
- c) Effervescent tablets

SECTION –II

Q.5 Attempt **ANY FIVE** of the following: (10)

- a) Enlist problems encountered in tablet coating
- b) Why gelatin is major component of capsule shell manufacturing?
- c) What are the advantages and disadvantages of soft gelatin capsule?
- d) What are the physiological considerations behind suppository formulation?
- e) Explain disintegration test of tablets
- f) Why do we measure the hardness of tablet?

Q.6 a) What are suppositories? Explain the selection criteria for suppository base. (07)

- b) Write possible defects in hard gelatin capsules filled with hygroscopic drugs (03)

Q.7 a) Discuss the different equipments used in tablet coating (07)

- b) Drug content test for 20 Paracetamol 500 mg/tablet is 455 mg. Does it passes the test? (03)

Q.8 Write short note on **ANY TWO** of the following: (10)

- a) Film coating of tablet
- b) Evaluation of hard gelatin capsule
- c) Method of preparation of suppositories