

THIRD YEAR PHARM. D (SUPPLEMENTARY) : SUMMER - 2018

SUBJECT: PHARMACEUTICAL FORMULATIONS

Day: **Saturday**
Date: **07/07/2018**

S-2018-4066

Time: **10.00 AM to 01.00 PM**
Max. Marks: 70

N.B.:

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

SECTION-I

- Q.1 A)** Answer any **FOUR** of the following: **(08)**
- i) What are tablets? Write its therapeutic significance.
 - ii) What are approaches to mask the unpleasant taste of drug in tablet?
 - iii) Write merits of capsule as dosage form over tablets.
 - iv) "Colouring agent increases patient acceptance". Justify.
 - v) What are physiochemical properties of drug to design its capsule dosage form?
- B)** What is capping of tablet? Suggest various approaches to avoid capping. **(03)**
- Q.2** Write the classification of tablets. Discuss the significance of coated tablets and evaluation of enteric coated tablets. **(12)**
- Q.3 a)** Write importance of log P value of drug and preservative in designing a pharmaceutical formulation. **(07)**
- b)** Write steps involved in sugar coating. **(05)**
- Q.4** Write short notes on any **THREE** of the following: **(12)**
- a) Sustained release tablets
 - b) Dissolution test I.P.
 - c) Wet granulation
 - d) Isolation of Gelatin as raw material

P. T. O.

SECTION-II

- Q.5 A)** Answer any **FOUR** of the following: **(08)**
- i)** Write patient counselling aspect for ophthalmic medicines.
 - ii)** Describe the role of suspending agent in suspension formulation.
 - iii)** Write selection of semisolid base for formulation to be applied on dry skin.
 - iv)** Write in brief storage conditions for ophthalmic preparation.
 - v)** Explain significance of viscosity of ointments.
- B)** Discuss importance of isotonicity in injection formulation. **(03)**
- Q.6** Write formulation aspects of emulsions. **(12)**
- Q.7 a)** Discuss selection of semisolid bases for a typical antifungal medicine. **(07)**
- b)** 'Phase inversion' as technique to formulate stable emulsion. **(05)**
- Q.8** Write short notes on any **THREE** of the following: **(12)**
- a)** Formulation of suppositories
 - b)** Small volume parenteral
 - c)** Sedimentation of suspension
 - d)** Methods of prepare semisolid formulations.

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