M. SC. (Analytical Chemistry) Sem-III (Choice Based Credit & Grade System) : WINTER - 2018

SUBJECT : ANALYSIS OF PHARMACEUTICALS

Day : Friday
Date : 26/10/2018

W-2018-0990

Time : 03.00 PM TO 06.00 PM
Max. Marks :60

N. B. :

1) All questions are **COMPULSORY**.
2) Figures to the right indicate **FULL** marks.
3) Answers to both the sections should be written on **SEPARATE** answer book.

SECTION- I

Q.1 Answer **ANY THREE** of the followings: **(15)**

a) Discuss the duties of DI in relation to manufacturing of Drugs.

b) What is GMP? Explain schedule M in detail.

c) Write the objectives of Drug and Cosmetic Act 1940.

d) Explain the term Drugs and Misbranded drugs.

e) Discuss on Assay of Hydrogen Peroxide.

Q.2 Answer **ANY THREE** of the followings: **(15)**

a) What are impurities? Explain the different types of impurities.

b) Write the functions of Central Drug Laboratory.

c) Explain in detail about Limit test for Arsenic.

d) Write the qualification of Govt. Analyst. What procedure has to be followed by Govt. analyst on receipt of samples of drugs for testing?

e) Write a note on Limit test for Chlorides or Sulphates.

SECTION-II

Q.3 Answer **ANY THREE** of the followings: **(15)**

a) Define and classify various Pharmaceutical additives.

b) What are powders? Write merits and demerits of powder as a dosage forms.

c) Write pyrogen testing as per IP for parentrals.

d) Define Emulsion. Discuss the Identification tests for emulsion.

e) Comment on documentation in Q. C. Laboratory.

Q.4 Answer **ANY THREE** of the followings: **(15)**

a) Define suspension. Discuss difference between flocculated and Non-flocculated suspension.

b) Discuss various pathways of drug degradation.

c) Mention the various Quality Control tests for tablet. Explain disintegration test in detail.

d) Write the general requirements for parentral product.

e) Discuss clinical trials of drugs with reference to ED^{50} AND LD^{50}.

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