

**M. SC. (ANALYTICAL CHEMISTRY) SEM-III (CHOICE
BASED CREDIT & GRADE SYSTEM) : WINTER - 2017
SUBJECT: ANALYSIS OF PHARMACEUTICALS**

Day : **Friday**
Date : **10/11/2017**

W-2017-0777

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

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Both the sections should be written in **SEPARATE** answer books.
 - 3) Figures to the **RIGHT** indicate full marks.
 - 4) Draw neat and labelled diagrams **WHEREVER** necessary.
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SECTION-I

Q.1 Answer any **THREE** of the following: **(15)**

- a) Discuss the qualification and duties of government analyst.
- b) Discuss the object of Drugs and Cosmetic Act 1940.
- c) What is limit test? Write principle involved in limit test for chloride.
- d) Give in brief the history of pharmacopoeia of India.
- e) Write assay of ferrous sulphate or hydrogen peroxide.

Q.2 Solve any **THREE** of the following: **(15)**

- a) What are the qualifications of drug inspector?
- b) Define drug. Write short account on misbranded drugs and adulterated drug.
- c) What does following schedules prescribe
(i) Sch – G (ii) Sch. - M (iii) Sch. – X (iv) Sch. – H (v) Sch. – C and C₁.
- d) Explain the functions of central drug laboratories.
- e) Explain the principle and apparatus for limit test of arsenic.

SECTION-II

Q.3 Answer any **THREE** of the following: **(15)**

- a) Define and classify various pharmaceutical additives.
- b) What are tablets? Discuss the quality control tests for tablets.
- c) What are emulsions? Write the quality control tests for emulsion.
- d) Define parenterals and write general requirements for parenteral products.
- e) Explain the test for alkalinity for glass.

Q.4 Solve any **THREE** of the following: **(15)**

- a) What are capsules? Differentiate between hard gelatin and soft gelatin capsule.
- b) What are suspensions? Discuss ideal qualities and quality control tests for suspension.
- c) What is dose and dosage form? Classify the various dosage forms.
- d) Define sterilization. Explain dry heat sterilization.
- e) What are powders? Write short note on dusting power.