

**F.Y.B.PHARM. SEMESTER-II (2011 COURSE) : WINTER -
2017**

SUBJECT : PHARMACEUTICAL CHEMISTRY – III (INORGANIC)

Day : **Thursday**
Date : **09/11/2017**

Time : **10.00 AM TO 01.00 PM**
Max. Marks : **80**

W-2017-3812

N.B.:

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

SECTION – I

- Q.1** Attempt **ANY FIVE** of the following: [10]
- a) Give the mechanism of action of alum.
 - b) How oxidation prevented in stored pharmaceutical?
 - c) Give the role of phosphate buffer system.
 - d) Define buffer capacity.
 - e) Differentiate between water for injection and sterile water for injection.
 - f) Define disinfectant and fungicide.
- Q.2** a) What are antimicrobial agents? Give their mechanism of action. Add a note on hydrogen peroxide. [08]
- b) Write note on zinc oxide. [07]
- Q.3** a) Write note on hardness of water. Briefly discuss various methods for softening of hard water. [08]
- b) Write note on acid-base theories. [07]
- Q.4** Write short notes on **ANY THREE** of the following: [15]
- a) Topical agents
 - b) Antioxidants
 - c) Alum and Boric acid as a Astringent
 - d) Potassium permanganate

SECTION – II

- Q.5** Attempt **ANY FIVE** of the following: [10]
- a) Give the role of oxygen in body.
 - b) Define antidotes. Give their classification.
 - c) What are desensitizing agents? Give examples.
 - d) Why stannous fluoride solution should be freshly prepared?
 - e) What is laughing gas? Give its uses.
 - f) Why elements in radio-contrast media should have high atomic number?
- Q.6** a) What are anticaries agents? Discuss the role of fluorides as anticaries agents. [08]
- b) Describe ammonium compounds as respiratory stimulants. [07]
- Q.7** a) Discuss composition of dentifrices with elaboration of polishing agents. [08]
- b) Discuss about cyanide poisoning. [07]
- Q.8** Write short notes on **ANY THREE** of the following: [15]
- a) Assay and uses of carbon dioxide
 - b) Helium gas
 - c) Radio-opaque contrast media
 - d) Expectorants and emetics

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