

F.Y.B.PHARM. SEMESTER-II (CBCS - 2015 COURSE) :
SUMMER - 2018

SUBJECT: PHARMACEUTICAL CHEMISTRY – III (Inorganic)

Day: **Saturday**
Date: **21/04/2018**

S-2018-3909

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

N.B.:

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

SECTION-I

- Q.1** Attempt any **FIVE** of the following: **(10)**
- a) Write the uses of Boric acid.
 - b) Write the role of phosphate buffer system.
 - c) What are antioxidants?
 - d) Write the mechanism of action of alum.
 - e) Define preservatives with suitable examples.
 - f) Write the principle involved in the assay of potassium permanganate.
- Q.2** a) Describe the methods of removal of hardness of water. **(07)**
b) Write a note on Talc as a preservative. **(03)**
- Q.3** a) Write note on Antimicrobial agents. **(07)**
b) Describe water as a Universal Pharmaceutical Vehicle. **(03)**
- Q.4** Write short notes on any **TWO** of the following: **(10)**
- a) Astringents
 - b) Official control test of water
 - c) Zinc oxide as preservative

SECTION-II

- Q.5** Solve any **FIVE** of the following: **(10)**
- a) Give the role of oxygen in the body.
 - b) Why stannous fluoride solution should be freshly prepared.
 - c) What is laughing gas? Give its uses.
 - d) How dental caries are formed?
 - e) Classify expectorants with their mode of action and example.
 - f) Give mechanism of action of fluoride ion as anti-caries agent.
- Q.6** a) Describe preparation, assay and uses of oxygen and sodium fluoride. **(07)**
b) What are desensitizing agents? Give suitable examples. **(03)**
- Q.7** a) Classify antidotes? Give detailed account of sodium Nitrite and sodium thiosulphate. **(07)**
b) List out the requirements of ideal radiopaque contrast medium. **(03)**
- Q.8** Write short notes on any **TWO** of the following: **(10)**
- a) Assay and uses of ammonium chloride
 - b) Polishing agents
 - c) Copper Sulphate