



MU-014-003103

Seat No. _____

M. P. M. (Sem. I) (CBCS) Examination

January – 2018

BP-102 : Pharmaceutical Chemistry – I

Faculty Code : 014

Subject Code : 003103

Time : 3 Hours]

[Total Marks : 80

Instructions :

- (1) Attempt three questions from each section.
- (2) Questions 1 and 5 are compulsory.
- (3) Figures to the right indicate full marks for the respective question.

SECTION – I

- | | | |
|----------|---|----------------------|
| 1 | Explain the following terms : (Any SEVEN) | 14 |
| | <ol style="list-style-type: none">(1) Pharmacopoeia(2) Limit test(3) Buffer capacity(4) Cathartics(5) ORS(6) Haematinics(7) Astringent(8) Respiratory stimulants(9) Sclerosing agents | |
| 2 | What is impurity ? Classify it with suitable examples. Enumerate sources of impurities. Discuss sources of impurities in detail. | 13 |
| 3 | <ol style="list-style-type: none">(1) Differentiate: Acholhydria and hyperchlorhydria. Define : Gastrointestinal agents. Classify them with suitable examples.(2) Enlist various methods for softening the hard water ? Discuss any two methods in detail. | 7
6 |

- 4 Answer the following :
- (1) Describe the mechanism of maintaining pH of blood. 7
 - (2) Give preparation, properties and uses of ferrous sulphate. 6

SECTION – II

- 5 Answer the following questions : (Any **TWO**) 14
- (1) What are antimicrobial agents ? Classify them with suitable examples. Discuss various mechanism of actions them.
 - (2) Explain limit test for chloride and sulphate.
 - (3) Differentiate : a) Hyponatremia and hypernatremia; b) Hypokalemia and hyperkalemia c) Antidote and poison.
- 6 (1) What are antioxidants and preservatives ? Write preparation and properties of any one antioxidant. 7
- (2) Write a note on cyanide poisoning and its treatment. 6
- 7 (1) What are dental products ? Classify them with suitable examples. Give preparation, properties and uses of sodium fluoride. 7
- (2) Discuss the physiological role of oxygen and describe its method of preparation, properties, storage conditions and uses. 6
- 8 Answer the following :
- (1) What are radiopharmaceuticals ? Discuss measurement of radioactivity. 7
 - (2) Write a note on chelating agents used in therapy. 6