## 2017

## M.Sc. 3rd Semester Examination CHEMISTRY

PAPER-CEM-304

Full Marks: 40

Time: 2 Hours

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

## (CBCS)

Answer any four questions.

1. (a) Define phermacodynamics and receptors?

|    | (b) | What are the different type of receptors?                | 3       |
|----|-----|--|---------|
|    | (c) | How catopril binds with enzyme ACE? Explain wit diagram. | ha<br>3 |
| 2. | (a) | How recentor molecule accept the drug?                   | 4       |

(b) What is Agonist and antagonist drug? Write the structure of such drug and explain the mode of action. 6

(Turn Over)

| 3.  | (a)   | Write down the etweeting of a Hard   |           |  |
|-----|-------|--|-----------|--|
| u.  | (4)   | Write down the structure of salbutanol and adrenal   | 3 ar.     |  |
|     | (p)   | Show how salbutanol act as agonistic drug and used broncodilator?  | for<br>3  |  |
|     | (c)   | Write the synthesis of salbutanol.   | 4         |  |
| 4,  | (a)   | How aspirin is treated for pusing the inflamation.   | 3         |  |
|     | (b)   | Describe the inactivation of prostoglandin synthesis aspirin.  | s by<br>4 |  |
|     | (c)   | Write down the synthetic step of aspirin.  | 3         |  |
| 5.  | (a)   | Define pharmacokinetics.   | 2         |  |
|     | (b)   | What is mean by ADME?  | 2         |  |
| es. | (c)   | (c) How drug is absorbed into the living system? Describe the different pathway with reference to specific drug. |           |  |
| ÷   |       |  | 6         |  |
| 6.  | Syn   | thesise the following (attempt any two):   |           |  |
|     | (i)   | Ibuprofen;   |           |  |
|     | (ii)  | Chloroquine;   |           |  |
|     | fiii) | Ciprofloxacin  |           |  |