

**Roll No.**

**Total No. of Pages : 02**

**Total No. of Questions : 10**

**M.Sc (Clinical Research) (Sem.-3)**

## PHARMACOTHERAPEUTICS-II

**Subject Code : UC-MSCR301-19**

**M.Code : 79927**

**Date of Examination : 12-12-22**

**Time : 3 Hrs.**

**Max. Marks : 70**

**INSTRUCTIONS TO CANDIDATES :**

1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.**
3. **SECTION-C contains FOUR questions carrying TEN marks each and students have to attempt any THREE questions.**

## SECTION-A

**1. Answer the following briefly**

- a. What are incretins?
- b. What is effect of cholecystokinin and ghrelin on eating behaviour?
- c. Briefly describe cell cycle?
- d. What is effect of letrozole on ovulation?
- e. What is mechanism of action of trimethoprim-sulfamethoxazole?
- f. What is mechanism of action of orlistat?
- g. Give classification of anti-fungal drugs.
- h. What are the adverse effects of combined oral contraceptives?
- i. What are teratogens?
- j. Give classification of insulins.

### SECTION-B

2. Describe briefly the agents used in H1N1 infections.
3. Describe P-Adrenoceptor agonists used in asthma?
4. Write a note on fluroquinolones.
5. Write a note on sulfonylureas.
6. Describe the mechanism of action, therapeutic indications and adverse effects of isoniazid and rifampicin.

### SECTION-C

7. Describe the tyrosine kinase inhibitors used in cancer chemotherapy.
8. Give replication cycle of HIV-1. Describe protease inhibitors.
9. Give classification of DMARDs. Describe TNF- $\alpha$  blocking agents used in RA.
10. Describe the pathophysiological changes observed in pulmonary hypertension and discuss the endothelin receptor antagonist.

**NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.**