

MICROBIOLOGY**PAPER-III**Time: 3 hours
Max. Marks:100

MICRO/D/20/18/III

Important Instructions:

- *You are provided with 5 answer sheet booklets. Each individual answer sheet booklet consists of 10 pages excluding the covering jackets.*
- *Answers to all the questions must be attempted within these 5 answer sheet booklets which must be later tagged together at the end of the exam.*
- *No additional supplementary answer sheet booklet will be provided.*
- *Attempt all questions in order.*
- *Each question carries 10 marks.*
- *Read the question carefully and answer to the point neatly and legibly.*
- *Do not leave any blank pages between two answers.*
- *Indicate the question number correctly for the answer in the margin space.*
- *Answer all the parts of a single question together.*
- *Start the answer to a question on a fresh page or leave adequate space between two answers.*
- *Draw table/diagrams/flowcharts wherever appropriate.*

Write short notes on:

1. Describe morphology of SARS-CoV-2. Discuss epidemiology and treatment of Covid-19. 2+(3+5)
2. Pathogenesis, complications and prevention of measles. 3+3+4
3. Enumerate AIDS defining conditions. Discuss HIV Rapid tests with NACO testing strategy for HIV diagnosis. 2+(5+3)
4. Describe life cycle of Trypanosoma cruzi. Write in brief about clinical features, laboratory diagnosis and complications of Chagas disease. 3+(2+3+2)
5. Enumerate diseases caused by Leishmania species. Discuss laboratory diagnosis and complications of kala-azar. 2+(5+3)
6. What is TORCH Complex? Discuss Cytomegalic inclusion body disease. 4+6
7. Laboratory diagnosis and prevention of bird flu. 6+4
8. a) Strongyloides stercoralis. 5+5
b) Angiostrongylus cantonensis.
9. Discuss pathogenesis of classical filariasis. Write a short note on occult filariasis. 7+3
10. Enumerate free living amoebae and write briefly about them. Discuss its laboratory diagnosis. 5+5
