

Total number of printed pages-4

34 (2) PATH & MCRB 2.1

2021

( Held in 2022 )

**PATHOLOGY AND MICROBIOLOGY**

Full Marks : 40+40=80

Time : Three hours

**The figures in the margin indicate full marks for the questions.**

**PATHOLOGY**

( Marks : 40 )

Answer **any one** out of **two** :  $10 \times 1 = 10$

1. What are the different ways of spread of tumors? Write briefly about routes of metastasis.
2. Pathogenesis and etiology of peptic ulcer disease with morphological and microscopical view.

3. Answer **any four** out of **five** :  $5 \times 4 = 20$

- (a) Difference between primary and secondary union of wound.

Contd.

- (b) Neuroblastoma—clinical features, routes of spread and morphological features.
- (c) Cysticercosis
- (d) Osteoporosis and pathogenesis of primary osteoporosis.
- (e) Structure of immune system.
4. Answer **all** questions:  $2 \times 5 = 10$
- (a) Clinical features of Ricketts
- (b) Prevention of HIV infection
- (c) Classification of Hyperparathyroidism
- (d) Classification of Osteomyelitis
- (e) Define Meningitis and mention its classification.

### MICROBIOLOGY

(Marks : 40)

1. Answer the following questions:  $2 \times 5 = 10$
- (a) What is sterilization and disinfection?
- (b) Write about the normal flora present in the skin and urinary tract.

- (c) What is an antigen and write *two* properties of an antigen.
- (d) Write about mycetoma infection.
- (e) Define immunity and its *two* types.

2. Answer **any four** of the following:  $5 \times 4 = 20$

- (a) Draw the labelled structure of an antibody and write about *two* types of antigen-antibody reactions.
- (b) Discuss about the streptococcus infection, its pathogenesis and treatment.
- (c) Discuss about the bacterial cell structure with a labelled diagram.
- (d) Write about the superficial infections – Dermatophytosis and Candidiasis.
- (e) Write about the various mode of action of antimicrobials.

3. Answer **any one** of the following:  $10 \times 1 = 10$

- (a) Discuss about the Tuberculosis infection with reference to its causative agent, pathogenesis, treatment and measures to prevent it.

(b) Discuss about the Tetanus infection with reference to its causative agent, pathogenesis and measures to prevent it.