## PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

#### **BSc DEGREE EXAMINATION MAY 2025**

(Fifth Semester)

# Branch - MICROBIOLOGY

### MEDICAL MICROBIOLOGY

Maximum: 50 Marks Time: Three Hours **SECTION-A (5 Marks)** Answer ALL questions ALL questions carry EQUAL marks  $(5 \times 1 = 5)$ Staphylococcus aureus is a 1 (i) Ferments sucrose (ii) Coagulase negative (iv) Urease negative (iii) produces phosphatase Cholera red reaction is identified by 2 (ii) Nitric acid (i) Sulphuric acid (iv) Hydrochloric acid (iii) Acetic acid Influenza viruses of human are spread by 3 (ii) Sneezing (i) Saliva (iv) Sexual transmission (iii) Fecal water Amoebiasis is caused by 4 (ii) Wuchereria bancrofti (i) Plasmodium vivax (iii) Ascaris lumbricoides (iv) Entamoeba histolytica Which of the following is not a common site for collecting a throat swab 5 specimen? (ii) Posterior pharyngeal (i) Abdominal cavity (iv) Tonsils (iii) Nasopharynx wall SECTION - B (15 Marks) Answer ALL Questions ALL Questions Carry EQUAL Marks  $(5 \times 3 = 15)$ Summarize the pathogenicity of Escherichia coli 6 a Analyse the laboratory diagnosis and treatment of Proteus sp. b Outline the procedure for hair perforation technique 7 a OR State the pathogenesis of Cryptococcosis b Bringout the laboratory diagnosis and prophylaxis of Rabies virus a OR Explain the symptoms and pathogenesis of Measles b Summarize the pathogenesis of Plasmodium vivax 9 a Narrate the life cycle and laboratory diagnosis of Wuchereria bancrofti b

How to collect the faeces sample? Explain in detail

Organize the collection method of sputum sample

10 a

b

#### SECTION -C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$ 

11 a Discuss the morphology, clinical features, pathogenesis and prophylaxis of Salmonella sp.

OR

- b Examine the clinical features, life cycle and prophylaxis of *Mycobacterium* tuberculosis
- 12 a Highlight the pathogenesis, laboratory diagnosis and treatment of *Tinea nigra* OR
  - b Distinguish the life cycle and prophylaxis of Aspergillosis
- 13 a Elucidate account on pathogenesis and treatment of Hepatitis B virus
  - b Analyze the symptoms, laboratory diagnosis and prophylaxis of Corona virus
- 14 a Summarize the life cycle, laboratory diagnosis and prophylaxis of *Entamoeba histolytica*

OR

- b Assume the pathogenesis, laboratory diagnosis and treatment of Ancylostoma duodenale
- 15 a Infer the collection method of cerebrospinal fluid sample

OR

b Categorize the various methods of wound sample collection

Z-Z-Z

**END**