

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2023  
(Fifth Semester)

Branch – MICROBIOLOGY

MEDICAL MICROBIOLOGY

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

- 1 The culture of this bacteria has a characteristic fishy odour  
(i) *Shigella* species (ii) *Proteus* species  
(iii) *Rickettsia* species (iv) *E. coli*
- 2 What is the term for candidiasis affecting the nails?  
(i) *Candida vulvovaginitis* (ii) Oral candidiasis  
(iii) Onychomycosis (iv) Systematic candidiasis
- 3 Which unique form does the rabies virus take?  
(i) Dumbell appearance (ii) Star shaped  
(iii) Pleomorphic (iv) Bullet shaped
- 4 The infective form of *E. histolytica* is \_\_\_\_\_.  
(i) uninucleate cyst (ii) binucleate cyst  
(iii) quadrinucleate cyst (iv) amoeboid form
- 5 The specimen for proper diagnosis of Salmonellosis is \_\_\_\_\_.  
(i) blood specimen (ii) throat swab  
(iii) urine specimen (iv) stool specimen

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions carry EQUAL Marks

(5 x 3 = 15)

- 6 a Comment on the gastrointestinal infection produced by *E. coli*.  
OR  
b Classify *Streptococcus* species.
- 7 a Classify medically important fungi.  
OR  
b Outline the clinical condition mycetoma.
- 8 a Describe the morphology of influenza virus with a neatly labelled diagram.  
OR  
b Describe measles.

Cont...

- 9 a Describe the morphology of *Ascaris lumbricoides* with a neatly labelled diagram.  
OR  
b Draw a neat self-explanatory life cycle of *Plasmodium vivax*.
- 10 a Describe the physical examination of urine specimen.  
OR  
b How will you detect possible pathogens in blood specimen and the medium employed in its detection.

**SECTION -C (30 Marks)**

Answer ALL questions

ALL questions carry EQUAL Marks (5 x 6 = 30)

- 11 a Summarize the clinical features of typhoid and its diagnosis.  
OR  
b Summarize the clinical features of cholera and its diagnosis.
- 12 a Discuss about superficial fungal infections.  
OR  
b Discuss about the opportunistic fungal infection – Aspergillosis.
- 13 a Describe the morphology, pathogenicity, clinical features and laboratory diagnosis of AIDS virus.  
OR  
b Describe the morphology, pathogenicity, clinical features and laboratory diagnosis of rabies.
- 14 a Narrate the role of *E. histolytica* in human infection.  
OR  
b Discuss on the pathogenicity and laboratory diagnosis of *Wuchereria bancroftii*.
- 15 a Summarize the processing of faecal sample for detection of possible pathogens.  
OR  
b Narrate the processing of sputum sample for detection of possible pathogens.

Z-Z-Z

END