

**PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)**

**MSc DEGREE EXAMINATION DECEMBER 2022  
(Third Semester)**

**Branch – APPLIED MICROBIOLOGY**

**MEDICAL BACTERIOLOGY, MYCOLOGY AND PARASITOLOGY**

Time: Three Hours

Maximum: 50 Marks

**SECTION-A (5 Marks)**

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

- 1 Scarlet fever is caused by \_\_\_\_\_  
 (i) S. aureus (ii) S.pneumoniae  
 (iii) S.pyogenes (iv) K.pneumoniae
- 2 Shigellosis infection is attributed to the \_\_\_\_\_ activity of shiga toxin which increases the severity by tissue invasion of large intestine.  
 (i) Exotoxic (ii) Enterotoxic  
 (iii) Cytotoxic (iv) Neurotoxic
- 3 Example for the opportunistic mycotic infection.  
 (i) Candidiasis (ii) Histoplasmosis  
 (iii) Dermatophytes (iv) Mycetoma
- 4 The larval form of Taenia solium is called \_\_\_\_\_.  
 (i) Cysticercus cellulosae (ii) Cysticercoid  
 (iii) Cysticercus bovis (iv) Cysticercus ovale
- 5 Which technique is used for CSF collection ?  
 (i) Phlebotomy (ii) Lumbar puncture  
 (iii) Tracheostomy (iv) Catheter

**SECTION - B (15 Marks)**

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 a Explain the infections caused by Staphylococcus.  
OR  
 b Write a note on Anthrax.
- 7 a Describe the laboratory diagnosis of Syphilis.  
OR  
 b Write a note on Brucellosis.
- 8 a Differentiate the pathogenesis of Histoplasmosis.  
OR  
 b Write a note on Aspergillosis.
- 9 a Explain the clinical features of Trichomoniasis.  
OR  
 b Outline the pathogenicity of Wuchereria bancrofti.
- 10 a Explain the clinical diagnosis of Nosocomial infections.  
OR  
 b Give an account on the processing of urine sample.

Cont...

**SECTION -C (30 Marks)**

Answer **ALL** questions

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

- 11 a Describe the pathogenicity and laboratory diagnosis of Diphtheria in childrens.  
OR  
b Explain the morphology, pathogenicity and laboratory diagnosis of Pulmonary Tuberculosis.
- 12 a Explain the morphology, pathogenicity and laboratory diagnosis of Enteric Fever.  
OR  
b Explain the morphology, pathogenicity and laboratory diagnosis of Vibrio cholerae.
- 13 a Give an account on pathogenicity and diagnosis of subcutaneous mycosis.  
OR  
b Give a detailed account on Systemic mycosis.
- 14 a Explain the clinical symptoms and life cycle of malaria.  
OR  
b Explain the clinical symptoms and life cycle of Ascariasis.
- 15 a Explain the processing of clinical specimen for microbiological diagnosis.  
OR  
b Give an account on antibiotic sensitivity tests.

Z-Z-Z

END