

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2022  
(Fifth Semester)

Branch –MICROBIOLOGY

MEDICAL MICROBIOLOGY

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10 x 1 = 10)

- 1 Choose the Causative agent of Scarlet fever
  - (i) *Staphylococcus aureus*
  - (ii) *Clostridium botulinum*
  - (iii) *Streptococcus pyogenes*
  - (iv) *Salmonella typhi*
- 2 Find the main symptom of tuberculosis is.....
  - (i) Tubercle formation
  - (ii) Liquid formation
  - (iii) Both
  - (iv) None of these
- 3 Which of the following fungal infection is most common in dogs?
  - (i) Coccidioidomycosis
  - (ii) Histoplasmosis
  - (iii) Blastomycosis
  - (iv) Sporotrichosis
- 4 Which of the following dimorphic fungi is a medically important human pathogen?
  - (i) *Cryptococcus neoformans*
  - (ii) *Histoplasma capsulatum*
  - (iii) *Mucor racemosus*
  - (iv) *Aspergillus niger*
- 5 Viruses that can remain latent (usually in neurons) for many years are most likely:
  - (i) Togaviruses
  - (ii) Herpes viruses
  - (iii) Enteroviruses
  - (iv) Rhinoviruses
- 6 Find the host of *Ascaris lumbricoides*
  - (i) Pig
  - (ii) Homo sapiens
  - (iii) Monkey
  - (iv) Goat and sheep
- 7 Find out the amoebic dysentery characteristic.....
  - (i) The passage of blood and mucous
  - (ii) with brownish black
  - (iii) Foul smelling stool
  - (iv) all the above
- 8 Where did form the Negri bodies
  - (i) At the site of viral replication in the brain
  - (ii) At the site of viral infection
  - (iii) At the site of viral infection in lungs
  - (iv) At the site of viral replication in the lungs
- 9 For serological examinations, the Blood sample should be transferred.....
  - (i) Directly into dry test tube
  - (ii) indirectly in to centrifuge tube
  - (iii) To glass slide
  - (iv) None of the above
- 10 When instructing the patient to collect a sputum specimen, the medical assistant should tell the patient to:
  - (i) Collect secretions from an evening coughing episode.
  - (ii) Collect secretions from a first morning deep coughing episode.
  - (iii) Allow saliva and mouth mucus to enter cup.
  - (iv) Keep specimen at room temperature for the duration.

Cont...

**SECTION - B (35 Marks)**

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 7 = 35)

- 11 a Classify the streptococci.  
OR  
b Give an account on Antigens of *Salmonella typhi*.
- 12 a Summarise the subcutaneous infections.  
OR  
b Describe about candidiasis.
- 13 a Describe the structure of Influenza Virus.  
OR  
b Give an account on Measles infection.
- 14 a Discuss about the microfilaria.  
OR  
b Outline the life cycle of *Ancylostoma duodenale*.
- 15 a Collection and processing of urine sample.  
OR  
b How will you collect the blood for the clinical diagnosis?

**SECTION - C (30 Marks)**

Answer any THREE Questions

ALL Questions Carry EQUAL Marks

(3 x 10 = 30)

- 16 Explain the Morphology, pathogenesis and laboratory diagnosis of *Mycobacterium tuberculosis*.
- 17 Write a detailed account of superficial mycoses?
- 18 Give a detailed account on the diagnosis and prevention of polio. Mention the Vaccination of polio disease.
- 19 Write in detail about the clinical manifestation of the *Entamoeba histolytica*.
- 20 How will you examine the bacteria from the clinical specimen, sputum?

Z-Z-Z

END