

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION DECEMBER 2024
(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 *Shigella dysenteriae* shows
 - (i) Tumbling motility
 - (ii) Gliding motility
 - (iii) Darting motility
 - (iv) No motility
- 2 Tuberculosis is a
 - (i) Water borne disease
 - (ii) Air borne disease
 - (iii) Food borne disease
 - (iv) Arthropod borne disease
- 3 Hepatitis B virus is also called
 - (i) Infectious Hepatitis
 - (ii) Serum Hepatitis
 - (iii) Serum sickness
 - (iv) Pathogenic Hepatitis
- 4 Which one of the following is an example for round worm?
 - (i) *Entamoeba histolytica*
 - (ii) *Plasmodium vivax*
 - (iii) *Ascaris lumbricoides*
 - (iv) *Wuchereria bancrofti*
- 5 What is the preferred method for collecting the blood specimens for blood culture to detect bacterial infections?
 - (i) Finger stick
 - (ii) Saliva collection
 - (iii) Swabbing the skin surface
 - (iv) Vein puncture

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 a Analyse the morphology and clinical features of *Klebsiella* sp.
OR
b Describe the pathogenesis of *Vibrio cholerae*.
- 7 a Outline the procedure for hair baiting technique.
OR
b Summarize the life cycle of *Coccidioides immitis*.
- 8 a Organize the symptoms and pathogenesis of Influenza A virus.
OR
b Develop the pathogenesis of covid-19 clinical manifestations.
- 9 a State the life cycle of *Entamoeba histolytica*.
OR
b Bringout the pathogenesis of *Ascaris lumbricoides*.
- 10 a Narrate the blood smear examination.
OR
b Explain the collection method of throat swabs.

Cont...

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

- 11 a Elucidate account on pathogenicity, laboratory diagnosis and treatment of *Staphylococcus* sp.

OR

- b Pointout the general characters, laboratory diagnosis and prophylaxis of *Neisseria gonorrhoeae*.

- 12 a Categorize the life cycle and treatment of *Pityriasis versicolor*.

OR

- b Examine the pathogenesis and prophylaxis of Candidiasis.

- 13 a Assume the general characters, symptoms, pathogenesis and laboratory diagnosis of Rabies virus.

OR

- b Analyze the pathogenesis, laboratory diagnosis and treatment of HIV-1 virus.

- 14 a Infer the clinical manifestations, life cycle and prophylaxis of *Plasmodium vivax*.

OR

- b Discuss the pathogenesis, laboratory diagnosis and treatment of *Wuchereria bancrofti*.

- 15 a Survey the collection method of urine sample.

OR

- b Summarize the various method of collection in pus sample.

Z-Z-Z

END