

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2023
(Third Semester)

Branch- APPLIED MICROBIOLOGY

MEDICAL BACTERIOLOGY & MYCOLOGY

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (5 x 1 = 5)

1. Pathogenic bacteria may gain access to pulpal tissue through
(i) Dental caries (ii) Gingival recession
(iii) Traumatic injuries to teeth (iv) All of the above
2. Which vaccines are highly effective against?
(i) Typhoid (ii) *Haemophilus influenzae* type b
(iii) *Salmonella* (iv) *Brucellosis*
3. Who would be LEAST likely to develop a serious illness from Histoplasma Infections?
(i) A healthy adult (ii) An AIDS patient
(iii) A young child (iv) A person with a chronic lung infection
4. Which of the following route is a high risk for the transfer of the pathogen to the susceptible patient?
(i) Surgical procedures, Burns (ii) Contaminated Ventilators
(iii) Air droplets (iv) All of the above
5. Sputum sample for AFB should be collected
(i) Morning after wakeup (ii) In the evening
(iii) After breakfast (iv) Whenever the person cough

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 3 = 15)

- 6 a. Explain collection and dispatch of clinical specimens.
OR
b. Define Nasocomial infections.
- 7 a. Describe morphology, prevention and therapeutics of disteria.
OR
b. Explain pathogenesis of Mycobacterium.
- 8 a. Explain pathogenesis of Epidemiology of *pseudomonas*.
OR
b. Illustrate laboratory diagnosis of *E. Coli*.

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- 9 a. Explain Tinea nigra.
OR
b. Describe immunodiagnostic methods in mycology.
- 10 a. Outline the pathogenicity of genital tract.
OR
b. Explain about skin, soft tissue and wound infections.

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

- 11 a. Explain clinical specimens for microbiological diagnosis of CSF & Urine.
OR
b. Define Antibiotic sensitivity test & Nosocomial infections.
- 12 a. Comment on cultural characteristics of Mycobacterium & Propionibacterium.
OR
b. Explain pathogenesis, Treatment & prevention of *Streptococcus*.
- 13 a. Illustrate morphology, cultural characteristics & pathogenesis of *E.Coli*.
OR
b. Define laboratory diagnosis, prevention & treatment of *Spirochetes*.
- 14 a. Define Subcutaneous Mycosis & Rhinosporodiasis.
OR
b. Discuss recent advancement in diagnosis.
- 15 a. Comment on infections of CNS, Ear, & Sinuses.
OR
b. Explain Gastrointestinal infections, urinary tract infections, soft tissue and wound infections.

Z-Z-Z

END