

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

**MSc DEGREE EXAMINATION DECEMBER 2018
(Third Semester)**

Branch - APPLIED MICROBIOLOGY

MEDICAL MICROBIOLOGY

Time: Three Hours

Maximum: 75 Marks

SECTION -A (30 Marks)

Answer **ALL** questions

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

- 1 a Write about the isolation and identification of *Corvnebacterium*.
OR
b Outline the pathogenicity and identification of Herpes virus.
- 2 a Explain the Epidemiology, diagnosis and treatment of *Cryptococcus*.
OR
b How to collect and process the clinical specimen, sputum, CSF and pus sample before inoculating into the media?
- 3 a Name the two types of antibiotics sensitivity, explain and add a note on MIC.
OR
b Explain the molecular diagnosis of pathogenic microorganism.
- 4 a Write about the morphology, cultural characteristics and pathogenesis of *Mycobacterium tuberculosis*.
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b Write about the epidemiology, pathogenesis of Rhabdovirus.
- 5 a Explain the clinical features of *Giardia lamblia* and *Trichomonas vaginalis*.
OR
b Write about the classification of Enterobacteriaceae. Write about the diagnosis & treatment of *Salmonella typhi* & *Shigella dysenterial*.

SECTION -B (45 Marks)

Answer any **THREE** questions

ALL questions carry **EQUAL** Marks (3 x 15 = 45)

- 6 Write detailed account of rubella virus.
- 7 How will you identify Enteric & non-enteric bacteria by blood culture? Add a note on serological & molecular diagnosis of *Clostridium* & *Spirochoctes*.
- 8 Explain about Oncoviruses. Add a note on pathogenesis, diagnosis & treatment.
- 9 Explain about dermatophytes which cause skin, hair and nail infection.
- 10 Briefly explain about pathogens transmitted by mosquitoes, ticks and mites.