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M.Sc. (CBCS) DEGREE EXAMINATION,  
NOVEMBER 2021

Third Semester

MICROBIOLOGY - CORE

MEDICAL AND PHARMACEUTICAL  
MICROBIOLOGY

(For those who joined in July 2017 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answers :

1. *Salmonella* sp could isolated using \_\_\_\_\_  
media.  
(a) XLD agar                      (b) SS agar  
(c) Both                              (d) Blood agar
2. IMViC reaction of *Vibrio* sp is \_\_\_\_\_  
(a) ++-                              (b) --++  
(c) +-+                              (d) +.++

3. Which of the following causes bacterial meningitis?
- (a) Streptococcus pneumoniae
  - (b) Neisseria meningitides
  - (c) Haemophilus influenza and listeria monocytogenes
  - (d) All
4. Choose the correct on polio vaccine
- (a) There are two types of vaccine; oral and injection
  - (b) Oral vaccine was developed by salk
  - (c) It contains attenuated form of virus given for the children below five years old
  - (d) All
5. SARS is \_\_\_\_\_
- (a) Caused by corona virus
  - (b) Respiratory disease
  - (c) A zoonotic disease
  - (d) All
6. Avian flu \_\_\_\_\_
- (a) Other names are Swine flu, human flu, bird flu, dog flu
  - (b) A pandemic disease
  - (c) Culling is commonly suggested for it
  - (d) All

7. Which one of the following statement is correct about Kirby Bauer method?
- (a) It is an agar diffusion method and other wise known as disc diffusion antibiotic sensitivity testing / KB testing
  - (b) Muller hinton agar is used in this test at only 4 mm deep, poured into either 100 mm or 150 mm Petri dishes. The pH level of the agar must be between 7.2 and 7.4
  - (c) Inoculation is made with a broth culture diluted to match a 0.5 McFarland turbidity standard, which is roughly equivalent to 150 million cells per mL
  - (d) All
8. MIC/MBC are the terms associated with \_\_\_\_\_
- (a) Antibiotics
  - (b) Amino acids
  - (c) Hormones
  - (d) All
9. Antibiotics could be in the form of \_\_\_\_\_
- (a) Tablets
  - (b) Syrups
  - (c) Ointments
  - (d) All

10. SOP is expanded as —————
- (a) Standard operative procedure
  - (b) Single operative procedure
  - (c) Both
  - (d) None

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).  
Each answer should not exceed 250 words.

11. (a) Comment on *Streptococcus* sp.

Or

- (b) Record the symptoms of TB.

12. (a) What do you know about bacterial skin infections?

Or

- (b) Portray the medical importance of *Rickettsia* sp.

13. (a) Mention about the commonly used antiviral drugs.

Or

- (b) Highlight the importance of Chikungunya.

14. (a) Count the factors affecting drug action.

Or

(b) Reveal the commonly used disinfectants in hospitals.

15. (a) Present your views on BP.

Or

(b) Comment on LAL test.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Cholera is a dangerous water borne disease – Justify with its microbiological background.

Or

(b) Explain the etiology, transmission, pathogenesis, clinical manifestations, diagnosis, chemotherapy and prophylaxis of *Entamoeba histolytica*.

17. (a) Explain in detail about clinical significance of Leprosy.

Or

(b) Add a note on etiology, pathogenesis, clinical manifestations, diagnosis, chemotherapy and prophylaxis of fungal skin infections.

18. (a) What are / were the threats from viruses for Tamil Nadu? Explain in detail.

Or

- (b) Dengue is a great threat for Tamil Nadu – Justify.

19. (a) Discuss in detail about Kirby – Bauer method.

Or

- (b) Add a detailed note on drug resistance in microbes.

20. (a) Compare IP with USP elaborately.

Or

- (b) Define: Sterility and explain the mode of testing of sterility in different products.

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