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Reg. No. :

**Code No. : 10737 E Sub. Code : JMMI 62/
SMMI 62**

B.Sc. (CBCS) DEGREE EXAMINATION,
APRIL 2020.

Sixth Semester

Microbiology – Main

CLINICAL MICROBIOLOGY

(For those who joined in July 2016 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL the questions.

Choose the correct answer :

1. Which of the following bacteria are found in the nose?
 - (a) *Haemophilus sp*
 - (b) *S. pneumoniae*
 - (c) *Corynebacterium sp.*
 - (d) *S. epidermidis & S. aureus*

2. Person to person transmission of pathogens is termed as
- (a) Horizontal transmission
 - (b) Vertical transmission
 - (c) None of these
 - (d) Both (a) and (b)
3. A transport medium for *Streptococcus pyogenes* is _____.
- (a) Cary Blair medium
 - (b) Bile peptone medium
 - (c) Pike's medium
 - (d) Glycerol saline medium
4. Which of the following method can be used to determine the number of bacteria quantitatively?
- (a) Streak-plate
 - (b) Spread-plate
 - (c) Pour-plate
 - (d) Pour plate & Spread plate
5. *Salmonella typhi* is the causative organism of
- (a) Undulant fever
 - (b) Remittent fever
 - (c) Dengue fever
 - (d) Enteric fever

6. Tuberculosis is transmitted through
- (a) Infected water
 - (b) Infected hands
 - (c) Infected blood
 - (d) Infected air
7. HIV can be transmitted through
- (a) Blood
 - (b) Semen
 - (c) Vaginal fluid
 - (d) All of above
8. Following virus is known to establish latent infections
- (a) Adeno virus
 - (b) Varicella-Zoster virus
 - (c) Herpes simplex virus
 - (d) All of these
9. Vector for Leishmaniasis is
- (a) Ticks
 - (b) Mite
 - (c) Sand fly
 - (d) Tsetse fly
10. "Tinea pedis" – is the scientific name of
- (a) Athlete's foot
 - (b) Ring worm
 - (c) Skin rash
 - (d) Skin infections

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) Explain Koch's Postulates.

Or

- (b) How do diseases transmit through vectors?

12. (a) Explain WIDAL test.

Or

- (b) Explain about different transport medium used in microbiology laboratory.

13. (a) Write a note on laboratory diagnosis of Bacillary dysentery.

Or

- (b) Write about – VDRL test.

14. (a) Briefly explain the genomic different and shift – in influenza virus.

Or

- (b) Explain the clinical symptoms and pathogenesis of Mumps.

15. (a) Define systemic mycosis and write pathogenesis of mycosis you have studied.

Or

- (b) Write note on LD bodies.

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Write a detailed account on sources and mode of transmission of infections.

Or

- (b) Explain about different virulence factors of microbes.

17. (a) Write brief account on general methods used for isolation and identification of bacteria.

Or

- (b) Write a brief account on typing of bacterial isolates.

18. (a) Discuss the pathogenicity and lab diagnosis of typhoid.

Or

- (b) Describe the clinical symptoms of bacterial STD.

19. (a) Explain the pathogenesis and laboratory diagnosis of respiratory tract-infections.

Or

(b) Explain the pathogenesis and clinical conditions caused by Herpes simplex – virus.

20. (a) Write about the life cycle, pathogenesis of parasite which female sand fly act as an invertebrate host.

Or

(b) Suggest methods for the prevention and control of hospital acquired infections.
