

**BACHELOR OF PHYSIOTHERAPY
THIRD SEMESTER
MICROBIOLOGY
BPT – 304**

**SET
B**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

Full Marks: 70

Time: 30 min.

Marks: 20

(Objective)

1×20=20

Choose the correct answer from the following:

- Type I hypersensitivity is mediated by which immunoglobulin.
a. IgD
b. IgE
c. IgG
d. IgM
- Clostridium tetani* is a
a. Gram positive cocci
b. Gram positive bacilli
c. Gram negative bacilli
d. Gram negative cocci
- Which of the following is an aerial spore?
a. Arthrospores
b. Blastospores
c. Sporangiospores
d. Chlamydospores
- Example of gram-positive cocci
a. *Escherichia coli*
b. *Staphylococcus aureus*
c. *Mycobacterium tuberculosis*
d. *Vibrio cholerae*
- Tuberculosis is caused by
a. *M. leprae*
b. *M. haemophilum*
c. *M. tuberculosis*
d. *M. microti*
- An organism which harbors the parasite and provides nourishment and shelter
a. Parasite
b. Host
c. Fomites
d. Vector
- Rheumatic heart disease starts as a sore throat from a bacterium called
a. *Streptococcus pyogenes*
b. *Streptococcus mitis*
c. *Streptococcus pneumoniae*
d. *Streptococcus oralis*
- Which type of hypersensitivity are mediated by T cells.
a. Type I
b. Type II
c. Type III
d. Type IV
- GAS GANGRENE is also known as
a. *Clostridium perfringens*
b. *Clostridium necrosis*
c. *Clostridium tetani*
d. *Clostridium myonecrosis*

10. Which of the following fungus is responsible for opportunistic mycoses
- | | |
|-------------------------------|-----------------------------|
| a. <i>Exophiala werneckii</i> | b. <i>Candida albicans</i> |
| c. <i>Piedria hortae</i> | d. <i>Mulassezia furfur</i> |
11. The presence of bacteria in urine is called
- | | |
|------------------|----------------|
| a. Bactericidal | b. Bacteriuria |
| c. Bacteriophage | d. Bacteremia |
12. Which of the following is the smallest virus?
- | | |
|---------------|------------------|
| a. Pox virus | b. Rubella virus |
| c. Parvovirus | d. Rabies virus |
13. The cell wall of fungi contains
- | | |
|------------|------------------|
| a. Chitin | b. Mycolic acid |
| c. Sterols | d. Peptidoglycan |
14. Which of this is a non-enveloped RNA virus
- | | |
|------------------|------------------|
| a. Herpesviridae | b. Rhabdoviridae |
| c. Reoviridae | d. Coronaviridae |
15. An inanimate object contaminated with infectious material which may transmit disease
- | | |
|------------|-------------|
| a. Vector | b. Host |
| c. Fomites | d. Organism |
16. Which of the following is not a sexual spore?
- | | |
|-----------------|-----------------|
| a. Basidiospore | b. Conidiospore |
| c. Oospore | d. Zygospor |
17. Inoculation and beginning of multiplication are known as
- | | |
|--------------|---------------------|
| a. Log phase | b. Stationary phase |
| c. Lag phase | d. Decline phase |
18. Which of the following is an RNA virus.
- | | |
|---------------|------------------|
| a. Pox virus | b. Rubella virus |
| c. Parvovirus | d. Rabies virus |
19. What is the size of pox virus?
- | | |
|-----------|-----------|
| a. 20 nm | b. 30 nm |
| c. 200 nm | d. 300 nm |
20. Example of Gram-negative bacilli
- | | |
|----------------------------------|------------------------------------|
| a. <i>Neisseria meningitidis</i> | b. <i>Neisseria gonorrhoea</i> |
| c. <i>Salmonella typhi</i> | d. <i>Streptococcus pneumoniae</i> |

(Descriptive)

Time : 2 hrs. 30 min.

Marks : 50

[Answer question no.1 & any four (4) from the rest]

1. Discuss briefly about cell mediated immunity and humoral mediated immunity. 5+5=10
2. Explain rheumatic fever and rheumatic heart disease. Write a short note on leprosy. 2.5+2.5+5=10
3. Describe the classification fungi based on morphology and disease. 10
4. Explain the pathogenesis of viral infection. 10
5. What is hypersensitivity? Explain the types of hypersensitivity. 2+8=10
6. Write a short note on the general properties of a virus. With the help of a labelled diagram explain the basic structure of a virus. 2+8=10
7. Explain the Normal flora of the human body. 10
8. Explain the morphology of bacteria. Describe the pathogenesis of Meningococci. 5+5=10

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