



DBF-201720 **Seat No. _____**
Second Year M. B. B. S. Examination
May - 2022
Microbiology : Paper-1

Time : 3 Hours]

[Total Marks : 100]

Instructions : (1) Figures on right indicates full Marks.
(2) Draw figures wherever necessary.
(3) Write Section-I and Section-II in separate answer sheet.

Section - I

- | | | |
|----------|--|-----------|
| 1 | Long answer question : | 12 |
| | (a) Define and classify hypersensitivity reactions. Write in detail about type-1 Hypersensitivity reaction. | |
| 2 | Write short notes on : (any two) | 12 |
| | (a) Alternative pathway of complement activation.
(b) Polymerase chain reaction.
(c) Passive Immunity. | |
| 3 | Write short notes on : (any four) | 16 |
| | (a) Flagella.
(b) Immunoglobulin M (IgM).
(c) ELISA.
(d) Mutation.
(e) Automated systems for bacterial identification. | |
| 4 | Write short answer : (any two) | 4 |
| | (a) What do you mean by healthcare?
(b) What rights does a person have as healthcare rights?
(c) Who are involved in maintaining healthcare of a patient in hospital? | |
| 5 | Write short answer : (any six) | 6 |
| | (a) Koch's postulate.
(b) Write 2 differences between T cell and B cell.
(c) Write 2 differences between Exotoxin and Endotoxin.
(d) Write 2 examples of anaerobic culture media. | |

- (e) Write 2 examples of Immunodeficiency disorders of phagocytosis.
- (f) Write 2 examples of capsulated bacteria.
- (g) Write 2 examples of live vaccine.

Section - II

- | | | |
|--|---|-----------|
| 6 | Long answer question : | 12 |
| <p>A 5-year old boy present with watery diarrhea and vomiting. Stool collected has a rice water type of appearance and sent for bacteriological analysis.</p> <ul style="list-style-type: none"> (a) What is the probable diagnosis of this infection? 2 (b) Name other bacteria responsible for diarrhea. 4 (c) Write the details of laboratory diagnosis to confirm the suspected infection. 6 | | |
| 7 | Write short notes on : (any two) | 12 |
| <ul style="list-style-type: none"> (a) Laboratory diagnosis of Hepatitis B. (b) Laboratory diagnosis of <i>Staphylococcus aureus</i>. (c) Laboratory diagnosis of Dengue. | | |
| 8 | Write short notes on : (any four) | 16 |
| <ul style="list-style-type: none"> (a) Laboratory diagnosis of HIV/AIDS (b) Laboratory diagnosis of Filaria. (c) Laboratory diagnosis of <i>P.falciparum</i>. (d) Laboratory diagnosis of <i>Candida albicans</i> (e) Laboratory diagnosis of Typhoid fever. | | |
| 9 | Write short answer : (any two) | 4 |
| <ul style="list-style-type: none"> (a) What is healthcare team? (b) What is the role of doctor in a healthcare team? (c) What is the role of nurse in a healthcare team? | | |
| 10 | Write short answer : (any six) | 6 |
| <ul style="list-style-type: none"> (a) Write 2 parasite found in blood. (b) Write 2 bacteria causing food poisoning. (c) Write 2 examples of dimorphic fungus. (d) Write 2 organisms causing endocarditis. (e) Write 2 parasitic infections of Hepatobiliary system. (f) Write 2 examples of diarrheogenic <i>E.coli</i>. (g) What is M'Fadyean reaction? | | |
-