



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**
 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.
- (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**
- (a) Laboratory diagnosis of Hepatitis B.
 - (b) Laboratory diagnosis of Staphylococcus aureus.
 - (c) Laboratory diagnosis of Dengue.
- 8** Write short notes on : (any **four**) **16**
- (a) Laboratory diagnosis of HIV/AIDS
 - (b) Laboratory diagnosis of Filaria.
 - (c) Laboratory diagnosis of P.falciparum.
 - (d) Laboratory diagnosis of Candida albicans
 - (e) Laboratory diagnosis of Typhoid fever.
- 9** Write short answer : (any **two**) **4**
- (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**
- (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 E.coli.
 - (g) What is M'Fadyean reaction?