

CLINICAL BIOCHEMISTRY AND MICROBIOLOGY (742)

Sample Question Paper

Class XII - 2018-19

Time: 3Hours

Max. Marks:60

General Instructions:

1. Question paper is divided into two sections: Section-A and Section- B.
2. **Section–A:**
 - i. Multiple choice question/Fill in the blanks/Direct Questions of 1 mark each. Answer any 10 questions out of the given 12 questions.
 - ii. Very Short Answer of 2 marks each. Answer any 5 questions from the given 7 questions.
 - iii. Short Answer of 3 marks each. Answer any 5 questions from the given 7 questions.
3. **Section–B:** Long/Essay type questions of 5 marks each. Answer any 5 questions from the given 7 questions.
4. All questions of a particular section must be attempted in the correct order.
5. Please check that this question paper contains 33 questions out of which 25 questions are to be attempted.
6. The maximum time allowed is 3 hrs.

SECTION –A

Answer any 10 questions out of the given 12 questions:

1. What do you mean by Hypernatremia and hyponatremia? (1)
2. What is the normal pH of blood? (1)
3. Write full form of SGOT and SGPT. (1)
4. What do you mean by achlorhydria? (1)
5. Where the liver is located in human body? (1)
6. Write down the role of vortex mixer in lab. (1)
7. What is the use of phase contrast microscope in lab? (1)
8. Name the organism that causes tuberculosis. (1)
9. What is the difference between innate and adaptive immunity? (1)
10. Name one DNA virus. (1)
11. Name one parasite that can be detected by microscopic analysis of urine. (1)
12. What do you mean by vector? (1)

Very Short Questions: (2 marks each).

Answer any 5 questions out of the given 7 questions:

13. Why DNA replication is semi conservative process? (2)
14. Enumerate the tests of lipid profile. (2)
15. How the autoclave can be used? (2)

16. What is the basic role of pili in bacteria? (2)
17. What is the difference between aerobic and anaerobic bacteria? (2)
18. Write down the principle of working of water bath. (2)
19. Write short note about Creatinine clearance test. (2)

Short Questions: (3marks each).

Answer any 5 questions out of the given 7 questions:

20. Enumerate the stages of transcription. (3)
21. How the plasma volume can be maintained by plasma osmolality? (3)
22. How the centrifuge play important role in microbiology laboratory? (3)
23. Write down the basic difference between bright field and dark field microscope. (3)
24. Enumerate the surface infections that can be caused by fungi. (3)
25. How the dendritic cells and mast cells can be helpful to maintain immunity? (3)
26. Enumerate types of immunoglobulins with their descriptions. (3)

SECTION –B

Long/Essay type questions (5 marks each).

Answer any 5 questions out of the given 7 questions:

27. Explain the clinical importance of following instruments: (5)
 - i) Colorimeter
 - ii) Magnetic Stirrer
 - iii) Hot air oven
28. Explain the roles of primary regulatory hormones in regulations of water intake. (5)
29. Write short note about Glucose Tolerance Test. (5)
30. Explain bacterial culture media with their proper uses. (5)
31. Explain life cycle and pathology caused by hook worm. (5)
32. How the virus can be cultivated in tissue culture technique. (5)
33. How the sample can be obtained in gastric function test and how it can be helpful? (5)