

LABORATORY MEDICINE (741)

Sample Question Paper

Class XII - 2018-19

Time: 3 Hours

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. From where CSF is produced in our body? (1)
2. What is the normal pH in semen sample? (1)
3. What is the life span of RBC in human body? (1)
4. What are the normal values of hemoglobin in men and women? (1)
5. Write full form of MCV and MCH. (1)
6. What is the shelf life of whole blood and in which temperature it can be kept? (1)
7. Write the definition of antibody titre. (1)
8. Where PAP stain is used in lab process? (1)
9. From where the buccal smear is collected? (1)
10. Write definition of imprint smear. (1)
11. Which colored bag is used for disposal in secured landfill? (1)
12. Write the basic role of platelet shaker in blood bank. (1)

Very Short Questions: (2 marks each).

Answer any 5 questions out of the given 7 questions:

13. Why iodine should not replace saline for routine use of faces analysis? (2)
14. Enumerate qualities of good blood smear. (2)
15. What do you mean by erythroblastosis? (2)

16. What is the difference between acid dye and basic dye? (2)
17. Enumerate some tissue fixatives. (2)
18. Why bone marrow study is important? (2)
19. Write the basic difference between forward and reverse grouping? (2)

Short Questions: (3 marks each).

Answer any 5 questions out of the given 7 questions:

20. How the presence of glucose, protein and ketone bodies can be determined in urine sample. (3)
21. Enumerate the basic functions of CSF in our body. (3)
22. How do you prepare 10% red cell suspension? (3)
23. Write short note about indirect coombs test. (3)
24. Write down the advantages and limitations of FNAC. (3)
25. How the donor can be motivated and registered for blood donation process. (3)
26. How the synovial fluid can be analysed physically and chemically? (3)

SECTION -B

Long/Essay type questions (5 marks each).

Answer any 5 questions out of the given 7 questions:

27. Explain about stool concentration method and how it can be helpful? (5)
28. How male infertility can be diagnosed by physical, chemical and microscopic analysis of semen analysis. (5)
29. Explain blood coagulation method by intrinsic and extrinsic pathway. (5)
30. Enumerate the sequences of manual tissue processing method. (5)
31. Explain the procedure of PAP staining. (5)
32. How can you determine the presence of bile salt, bile pigment, urobilinogen and porphobilinogen in urine sample. (5)
33. Explain the difference between transudate and exudate. (5)