

National Board of Examinations

Question Paper Name : DNB Pathology Paper2
Subject Name : DNB Pathology Paper2
Duration : 180
Total Marks : 100
Display Marks: No

Maximum Instruction Time : 0

Question Number : 1 Question Id : 32718733544 Consider As Subjective : Yes

Please write your answers in the answer booklet within the allotted pages as follows:-

Question Number	Answer to be attempted within	Question Number	Answer to be attempted within
Q. 1	Page 1-5	Q. 6	Page 26-30
Q. 2	Page 6-10	Q. 7	Page 31-35
Q. 3	Page 11-15	Q. 8	Page 36-40
Q. 4	Page 16-20	Q. 9	Page 41-45
Q. 5	Page 21-25	Q. 10	Page 46-50

1. Write a short note on the common and ideal fixatives used in a cytopathology laboratory. Write the advantages and disadvantages of each fixative solution. [6+4]

Question Number : 2 Question Id : 32718733545 Consider As Subjective : Yes

Write the principles of a fluorescent-in-situ hybridization test. What are the different types of probes that can be used in a cytogenetics laboratory? Write down your concept of interpretation of any cytogenetic changes in solid tumors. [3+3+4]

Question Number : 3 Question Id : 32718733546 Consider As Subjective : Yes

Role of cytologic techniques in neoplastic and non-neoplastic lung diseases. [10]

Question Number : 4 Question Id : 32718733547 Consider As Subjective : Yes

What is a laser dissection microscope? How and where such a microscopic setup can be useful in clinical research? Explain with examples. [3+7]

Question Number : 5 Question Id : 32718733548 Consider As Subjective : Yes

Discuss the methods of analyzing DNA sequence and its clinical applications. [10]

Question Number : 6 Question Id : 32718733549 Consider As Subjective : Yes

A 42-year-old male patient presented with gross cardiomegaly and an endomyocardial biopsy revealed cardiac amyloidosis. In the absence of other systemic pathology and family history, the clinician was interested to know the type of amyloid protein deposited in this case before starting appropriate therapy. By which method the amyloid protein can be typed in this case? Write a short note on the platform to be used. [3+7]

Question Number : 7 Question Id : 32718733550 Consider As Subjective : Yes

- a) Differences between internal and external quality assurance programs. [5]
- b) Methods of cell block preparation. [5]

Question Number : 8 Question Id : 32718733551 Consider As Subjective : Yes

How molecular testing can help to individualize the therapy in a patient with colorectal carcinoma? Write the tests recommended and the implications of each test. [4+(3+3)]

Question Number : 9 Question Id : 32718733552 Consider As Subjective : Yes

Write a short note on antigen-antibody reactions (mechanism). Discuss available methods by which antigen-antibody reactions can be detected in today's era? [4+6]

Question Number : 10 Question Id : 32718733553 Consider As Subjective : Yes

- a) Application of electron microscopy in renal diseases with organized deposits. [5]
- b) Application of direct immunofluorescence in renal and skin diseases. [5]