

National Board of Examinations

Question Paper Name :	DNB Biochemistry Paper3
Subject Name :	DNB Biochemistry Paper3
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DNB Biochemistry Paper3

Group Number :	1
Group Id :	327187229
Group Maximum Duration :	0
Group Minimum Duration :	180
Show Attended Group? :	No
Edit Attended Group? :	No
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Is this Group for Examiner? :	No

DNB Biochemistry Paper3

Section Id :	327187232
Section Number :	1
Section type :	Offline
Mandatory or Optional :	Mandatory

Number of Questions :	10
Number of Questions to be attempted :	10
Section Marks :	100
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Sub-Section Number :	1
Sub-Section Id :	327187236
Question Shuffling Allowed :	No

Question Number : 1 Question Id : 327187810 Question Type : SUBJECTIVE

Correct Marks : 10

- a) What are oncogenes and mechanism of oncogene activation? [5]
- b) Write briefly about genetic testing of familial cancers. [5]

Question Number : 2 Question Id : 327187811 Question Type : SUBJECTIVE

Correct Marks : 10

- a) What are different types of hypersensitivity reactions? [5]
- b) Explain the mechanism of delayed type hypersensitivity with illustration. [5]

Question Number : 3 Question Id : 327187812 Question Type : SUBJECTIVE

Correct Marks : 10

Enumerate distinguishing features of Genomics, Proteomics and Bioinformatics. [10]

Question Number : 4 Question Id : 327187813 Question Type : SUBJECTIVE

Correct Marks : 10

- a) Explain the steps and molecules that catalyse mRNA splicing. [5]
- b) How errors or changes in synthesis, processing, splicing, stability or function of mRNA transcripts cause diseases? [5]

Question Number : 5 Question Id : 327187814 Question Type : SUBJECTIVE

Correct Marks : 10

- a) Discuss the salient features of autoimmune disorders. [4]
- b) Explain the mechanisms involved in generating autoimmunity. [4]
- c) Name one autoimmune disease and related defect in the same. [2]

Question Number : 6 Question Id : 327187815 Question Type : SUBJECTIVE

Correct Marks : 10

- a) Chromosome walking. [5]
- b) RFLP and its application. [5]

Question Number : 7 Question Id : 327187816 Question Type : SUBJECTIVE

Correct Marks : 10

- a) Mechanisms by which cancer cells can develop drug resistance. [5]
- b) The concepts of genomic instability, aneuploidy and angiogenesis in tumours. [5]

Question Number : 8 Question Id : 327187817 Question Type : SUBJECTIVE

Correct Marks : 10

Outline the key differences between:

- a) Polyclonal and monoclonal antibodies. [5]
- b) Allotype and idiotype. [5]

Question Number : 9 Question Id : 327187818 Question Type : SUBJECTIVE

Correct Marks : 10

Briefly discuss growth factors and growth factor receptors in carcinogenesis. [5+5]

Question Number : 10 Question Id : 327187819 Question Type : SUBJECTIVE

Correct Marks : 10

Compare and contrast stem cells and cancer cells. [10]