

National Board of Examinations

Question Paper Name :	DrNB Medical Genetics Paper3
Subject Name :	DrNB Medical Genetics Paper3
Creation Date :	2022-06-25 17:21:23
Duration :	180
Share Answer Key With Delivery Engine :	No
Actual Answer Key :	No

DrNB Medical Genetics Paper3

Group Number :	1
Group Id :	3271871206
Group Maximum Duration :	0
Group Minimum Duration :	180
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	100
Is this Group for Examiner? :	No
Examiner permission :	Cant View
Show Progress Bar? :	No

DrNB Medical Genetics Paper3

Section Id :	3271871209
Section Number :	1

Section type :	Offline
Mandatory or Optional :	Mandatory
Number of Questions to be attempted :	10
Section Marks :	100
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	3271871213
Question Shuffling Allowed :	No

Question Number : 1 Question Id : 32718711112 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

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. Explain and discuss the possibility of a three parent baby. [10]

Question Number : 2 Question Id : 32718711113 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

- Discuss the role of liquid biopsy in cancers. [5]
- Describe non-invasive prenatal diagnosis for monogenic disorders. [5]

Question Number : 3 Question Id : 32718711114 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Discuss Gapless Sequencing of the Human Genome. [10]

Question Number : 4 Question Id : 32718711115 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Describe briefly preimplantation genetic screening and diagnosis. [5+5]

Question Number : 5 Question Id : 32718711116 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

What are the different strategies for therapeutic genome editing. List the associated challenges? [7+3]

Question Number : 6 Question Id : 32718711117 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Describe the different treatment strategies of spinal muscular atrophy. [10]

Question Number : 7 Question Id : 32718711118 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Define Repurposing. Give two examples to explain it. [5+5]

Question Number : 8 Question Id : 32718711119 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Discuss cascade screening and presymptomatic screening with examples. Describe feasibility and challenges on implementing carrier screening in India in NGS era. [6+4]

Question Number : 9 Question Id : 32718711120 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time : 0

Discuss briefly RNA sequencing and its applications. [4+6]

Question Number : 10 Question Id : 32718711121 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time : 0

Enumerate advances in the management of skeletal dysplasias. [10]