## National Board of Examinations

Question Paper Name :DNB Physiology Paper1Subject Name :DNB Physiology Paper1Creation Date :2024-10-17 16:12:18

Duration :180Total Marks :100Display Marks:NoShare Answer Key With Delivery Engine :NoActual Answer Key :No

## **DNB Physiology Paper1**

Group Number: 1

**Group Id:** 3271872881

Group Maximum Duration:

Group Minimum Duration:

Show Attended Group?:

No
Edit Attended Group?:

No
Break time:

0

## **DNB Physiology Paper1**

**Section Id:** 3271872884

Section Number: 1

Section type: Offline

Mandatory or Optional: Mandatory

Number of Questions: 10
Number of Questions to be attempted: 10
Section Marks: 100
Maximum Instruction Time: 0
Sub-Section Number: 1

**Sub-Section Id**: 3271872888

**Question Shuffling Allowed:** No

Question Number: 1 Question Id: 32718730094 Question Type: SUBJECTIVE Consider As

Subjective : Yes Correct Marks : 10

## 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. a) Compare and contrast constitutive and non-constitutive pathways of secretion. [7]
- b) Add a note on porosomes. [3]

Question Number: 2 Question Id: 32718730095 Question Type: SUBJECTIVE Consider As

Subjective : Yes Correct Marks : 10

a) Establishing and maintaining cell polarity. [6]

b) Role of cell polarity in cellular function and development. [4]

Question Number: 3 Question Id: 32718730096 Question Type: SUBJECTIVE Consider As

Subjective : Yes Correct Marks : 10

a) Describe in detail G proteins and their role in signal transduction. [7]

b) G protein receptor disorders. [3]

Question Number: 4 Question Id: 32718730097 Question Type: SUBJECTIVE Consider As

Subjective : Yes Correct Marks : 10

a) Explain the basis for the resting membrane potential of a neuron. [5]

b) Describe the effect of hyperkalemia and hypokalemia on resting membrane potential. [5]

Question Number: 5 Question Id: 32718730098 Question Type: SUBJECTIVE Consider As

Subjective : Yes Correct Marks : 10

Describe the formation of antibodies and sensitized lymphocytes by a lymph node in response to antigens. [10]

Question Number: 6 Question Id: 32718730099 Question Type: SUBJECTIVE Consider As

Subjective : Yes Correct Marks : 10

Discuss the following statement with examples, "Essential fatty acids are necessary for the health of an individual". Add a note on the role of cholesterol in the etiology and course of atherosclerosis. [6+4]

Question Number: 7 Question Id: 32718730100 Question Type: SUBJECTIVE Consider As

Subjective : Yes Correct Marks : 10

Describe primary active and secondary active transport processes with example. Describe the mechanism of transport of water across epithelium. [4+6]

Question Number: 8 Question Id: 32718730101 Question Type: SUBJECTIVE Consider As

Subjective : Yes Correct Marks : 10

a) Competency Based Medical Education for MBBS students. [5]

b) Importance of District Residency Program for Medical Post Graduate students. [5]

Question Number: 9 Question Id: 32718730102 Question Type: SUBJECTIVE Consider As

Subjective : Yes Correct Marks : 10

Enumerate and discuss the methods used to record/measure:

a) Cell adhesion molecules. [5]

b) Post translation modification. [5]

Question Number: 10 Question Id: 32718730103 Question Type: SUBJECTIVE Consider As

Subjective : Yes Correct Marks : 10

Discuss the maintenance of a nearly constant internal environment and its clinical relevance. [10]