

National Board of Examinations

Question Paper Name : DNB Physiology Paper4
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DNB Physiology Paper4

Group Number : 1
Group Id : 3271872031
Group Maximum Duration : 0
Group Minimum Duration : 180
Show Attended Group? : No
Edit Attended Group? : No
Group Marks : 100
Is this Group for Examiner? : No
Examiner permission : Cant View
Show Progress Bar? : No

DNB Physiology Paper4

Section Id : 3271872034
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 :	3271872038
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Number : 1 Question Id : 32718719952 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

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. Enumerate the common cardiac arrhythmias and discuss the electrocardiographic (ECG) changes associated with them. Add a note on effect of changes in extracellular fluid potassium concentration on ECG. [7+3]

Question Number : 2 Question Id : 32718719953 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Describe the various physiological changes that occur due to ageing. Add a note on recent advances in anti-ageing research. [7+3]

Question Number : 3 Question Id : 32718719954 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Describe the physiological principles underlying:

- a) Artificial respiration and Oxygen therapy. [6]
- b) Heart Rate Variability for testing autonomic functions. [4]

Question Number : 4 Question Id : 32718719955 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Explain the physiological basis of:

- a) Pregnancy diagnostic tests. [6]
- b) Hormone replacement therapy in post-menopausal females. [4]

Question Number : 5 Question Id : 32718719956 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

- a) Urinary buffers. [4]
- b) Achalasia cardia. [3]
- c) Calcitonin. [3]

Question Number : 6 Question Id : 32718719957 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

- a) Importance of RBC cytoskeleton in health and disease. [5]
- b) Frank Starling curves. [5]

Question Number : 7 Question Id : 32718719958 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Describe the physiological basis of training in various sports. Add a note on doping in sports. [7+3]

Question Number : 8 Question Id : 32718719959 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

- a) Oral hypoglycemics. [5]
- b) Renal replacement therapy. [5]

Question Number : 9 Question Id : 32718719960 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Compare and contrast:

- a) Decerebrate rigidity and decorticate rigidity. [4]
- b) Alpha motor neuron & Gamma motor neuron. [3]
- c) Conductive and sensorineural deafness. [3]

Question Number : 10 Question Id : 32718719961 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

- a) Study designs in medical research. [6]
- b) Significance of communication skills and empathy in medical profession. [4]