

National Board of Examinations

Question Paper Name :	DNB Physiology Paper4
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DNB Physiology Paper4

Group Number :	1
Group Id :	327187679
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 :	327187682
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 : 327187686

Question Shuffling Allowed : No

Is Section Default? : null

Question Number : 1 Question Id : 3271875872 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. Describe the various techniques used to assess regional blood flow in living, conscious humans, with emphasis on recent developments. [10]

Question Number : 2 Question Id : 3271875873 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

What is gut-brain-microbiota-axis? Describe the role of gut-brain-microbiota-axis in health and disease. [4+6]

Question Number : 3 Question Id : 3271875874 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) Define free water clearance. [2]
- b) Describe the sites and mechanism of action of different types of diuretics in renal tubules. [8]

Question Number : 4 Question Id : 3271875875 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) Describe various gastric function tests and their clinical relevance. [5]
- b) Describe various pancreatic exocrine function tests and their clinical relevance. [5]

Question Number : 5 Question Id : 3271875876 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) Describe the pathophysiology of fever. [5]
- b) Describe the pathophysiology of malignant hyperthermia. [5]

Question Number : 6 Question Id : 3271875877 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) Explain the physiological basis of Jendrassik maneuver. [5]
- b) Explain the pathophysiological basis of clonus. [5]

Question Number : 7 Question Id : 3271875878 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) Explain why subendocardial myocardium is more vulnerable to ischaemia as compared to subepicardial myocardium. [5]
- b) With the help of suitable diagrams, explain the serial electrocardiographic patterns seen in anterior myocardial infarction. [5]

Question Number : 8 Question Id : 3271875879 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 fibromyalgia. Describe the role of acupuncture and acupressure in cure of chronic pain. [5+5]

Question Number : 9 Question Id : 3271875880 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 consequences of sedentary lifestyle. [10]

Question Number : 10 Question Id : 3271875881 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) Describe the concepts of integration as framed in Graduate Medical Education Regulation, 2018. [5]
- b) Create a lesson plan for integrated session of anaemia for Phase I medical undergraduate students. [5]