National Board of Examinations

Question Paper Name :	DNB Physiology Paper2
Subject Name :	DNB Physiology Paper2
Creation Date :	2022-12-22 19:38:22
Duration :	180
Share Answer Key With Delivery Engine :	No
Actual Answer Key :	No

DNB Physiology Paper2

Group Number :	1
Group Id :	3271871344
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 Paper2

Section Id :	3271871347
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	Yes	
Clear Response :		
Maximum Instruction Time :	0	
Sub-Section Number :	1	
Sub-Section Id :	3271871351	
Question Shuffling Allowed :	No	
Is Section Default? :	null	

Question Number : 1 Question Id : 32718712492 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 regulation of gastric motility and emptying in fed state. [10]

Question Number : 2 Question Id : 32718712493 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 fibrinolytic system and explain its physio-clinical significance. Add a note on anticoagulants. [(4+2)+4]

Question Number : 3 Question Id : 32718712494 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 factors that regulate stroke volume and heart rate. [5+5]

Question Number : 4 Question Id : 32718712495 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 role of renin-angiotensin-aldosterone in maintaining arterial blood pressure. [10]

Question Number : 5 Question Id : 32718712496 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) Gut-brain-microbiota axis. [5]

b) Pancreatic function tests. [5]

Question Number : 6 Question Id : 32718712497 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 effect of varying amounts of hypoxia, pH and temperature on CO_2 response curves. Add a note on CO_2 narcosis. [(3+3+2)+2]

Question Number : 7 Question Id : 32718712498 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 relation between work load, blood lactate levels and oxygen uptake during graded exercise. [10]

Question Number : 8 Question Id : 32718712499 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 ionic basis of pacemaker potential in heart and the factors affecting it. Add a note on implanted pacemakers. [(4+4)+2]

Question Number : 9 Question Id : 32718712500 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) Obligatory and facultative reabsorption of water in kidneys. [3]

b) Free water and Osmolar clearances. [4]

c) Central and Nephrogenic diabetes insipidus. [3]

Question Number : 10 Question Id : 32718712501 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 pressure changes that occur during quiet and forceful ventilation. [5]

b) Explain the mechanisms involved in ventilation perfusion matching. [5]