National Board of Examinations

Question Paper Name :	DNB Physiology Paper2
Subject Name :	DNB Physiology Paper2
Creation Date :	2023-10-15 14:13:50
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DNB Physiology Paper2

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DNB Physiology Paper2

Section Id :	3271872582
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 :	3271872586	
Question Shuffling Allowed :	No	
Is Section Default? :	null	

Question Number : 1 Question Id : 32718726273 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 mechanism of transport of oxygen from the lungs to the tissues. Add a note on the physio-clinical significance of P_{50} . [7+3]

Question Number : 2 Question Id : 32718726274 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) Propulsive and mixing movements in gastrointestinal tract. [4]
- b) Pre-hepatic and Post hepatic jaundice. [3]

Question Number : 3 Question Id : 32718726275 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) Pressure gradients and flow in the coronary vessels during various phases of the cardiac cycle. [4]

b) Factors affecting coronary vascular resistance. [4]

c) Myocardial hibernation and stunning. [2]

Question Number : 4 Question Id : 32718726276 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 reflex mechanisms for maintaining normal arterial pressure. [10]

Question Number : 5 Question Id : 32718726277 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) Renal handling of glucose. [3]

- b) Diluting segments of the nephron. [3]
- c) Role of kidneys in maintaining K⁺ balance. [4]

Question Number : 6 Question Id : 32718726278 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 physio-clinical significance of:

a) Timed vital capacity. [4]

b) Law of Laplace. [3] c) Ventilation perfusion ratio. [3]

Question Number : 7 Question Id : 32718726279 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) Recommended dietary allowances. [3]
- b) Respiratory quotient and its significance. [3]
- c) Childhood overnutrition and its implications. [2]
- d) Tissue protein stores in starvation. [2]

Question Number : 8 Question Id : 32718726280 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 structure of platelets. Explain the role of platelets in hemostasis. Add a note on immature platelet fraction. [3+5+2]

Question Number : 9 Question Id : 32718726281 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) Physiological responses to gravitational force. [5]
- b) Exercise tolerance and fatigue. [5]

Question Number : 10 Question Id : 32718726282 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 physiologic anatomy of the urinary bladder. [2]

b) Explain the micturition reflex and its control by higher centers of the brain. [5]c) Differentiate between atonic bladder and automatic bladder. [3]