

National Board of Examinations

Question Paper Name :	DNB Physiology Paper4
Subject Name :	DNB Physiology Paper4
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DNB Physiology Paper4

Group Number :	1
Group Id :	327187238
Group Maximum Duration :	0
Group Minimum Duration :	180
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
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Is this Group for Examiner? :	No

DNB Physiology Paper4

Section Id :	327187241
Section Number :	1
Section type :	Offline
Mandatory or Optional :	Mandatory

Number of Questions :	10
Number of Questions to be attempted :	10
Section Marks :	100
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Sub-Section Number :	1
Sub-Section Id :	327187245
Question Shuffling Allowed :	No

Question Number : 1 Question Id : 327187900 Question Type : SUBJECTIVE

Correct Marks : 10

What is 'set point' of temperature regulation? Describe the mechanisms of regulation of temperature on exposure to cold. Add a note on heat stroke and its management. [2+5+3]

Question Number : 2 Question Id : 327187901 Question Type : SUBJECTIVE

Correct Marks : 10

Describe the pathophysiology and management of Adult Respiratory Distress Syndrome, with special reference to COVID-19. [10]

Question Number : 3 Question Id : 327187902 Question Type : SUBJECTIVE

Correct Marks : 10

- a) What is net endogenous acid production? Explain the formation of new bicarbonate ion by the kidneys. [2+4]
- b) Describe the clinical application of arterial blood gas measurements in management of acid-base disorders. [4]

Question Number : 4 Question Id : 327187903 Question Type : SUBJECTIVE

Correct Marks : 10

Describe the role of radioactive isotopes in advancement of the knowledge of Physiology. [10]

Question Number : 5 Question Id : 327187904 Question Type : SUBJECTIVE

Correct Marks : 10

Describe the pathophysiology, diagnosis and medical management of essential hypertension.

[4+3+3]

Question Number : 6 Question Id : 327187905 Question Type : SUBJECTIVE

Correct Marks : 10

Describe the physiological changes that occur during menopause. Comment on the role of hormone replacement therapy in the management protocol. [6+4]

Question Number : 7 Question Id : 327187906 Question Type : SUBJECTIVE

Correct Marks : 10

Describe the pathophysiology of:

a) Achalasia and Hirschsprung disease. [5]

b) Obstructive Jaundice. [5]

Question Number : 8 Question Id : 327187907 Question Type : SUBJECTIVE

Correct Marks : 10

a) What is dynamic airway compression? With the help of suitable curves, explain the concept of maximum expiratory flow. [3+4]

b) Physio-clinical significance of pulse oximetry. [3]

Question Number : 9 Question Id : 327187908 Question Type : SUBJECTIVE

Correct Marks : 10

Give the physiological basis and significance of:

a) Visual evoked potential. [3]

b) Brainstem auditory evoked potential. [4]

c) Motor evoked potential. [3]

Question Number : 10 Question Id : 327187909 Question Type : SUBJECTIVE

Correct Marks : 10

- a) Mismatched blood transfusion. [4]
- b) Mentzer index. [3]
- c) Micro RNA [3]