

# National Board of Examinations

<b>Question Paper Name :</b>	DNB Physiology Paper2
<b>Subject Name :</b>	DNB Physiology Paper2
<b>Creation Date :</b>	2022-06-25 17:20:24
<b>Duration :</b>	180
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<b>Actual Answer Key :</b>	No

## DNB Physiology Paper2

<b>Group Number :</b>	1
<b>Group Id :</b>	3271871166
<b>Group Maximum Duration :</b>	0
<b>Group Minimum Duration :</b>	180
<b>Show Attended Group? :</b>	No
<b>Edit Attended Group? :</b>	No
<b>Break time :</b>	0
<b>Group Marks :</b>	100
<b>Is this Group for Examiner? :</b>	No
<b>Examiner permission :</b>	Cant View
<b>Show Progress Bar? :</b>	No

## DNB Physiology Paper2

<b>Section Id :</b>	3271871169
<b>Section Number :</b>	1

<b>Section type :</b>	Offline
<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions to be attempted :</b>	10
<b>Section Marks :</b>	100
<b>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes
<b>Maximum Instruction Time :</b>	0
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	3271871173
<b>Question Shuffling Allowed :</b>	No

**Question Number : 1 Question Id : 32718710712 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**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 enteric nervous system. Discuss various gastrointestinal reflexes. Explain the physiological alterations in Irritable Bowel Syndrome (IBS). [5+3+2]

**Question Number : 2 Question Id : 32718710713 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

Explain the mechanism of iron absorption in detail. Define total iron binding capacity. Explain its significance in iron deficiency anemia and anemia of chronic disease. [5+1+4]

**Question Number : 3 Question Id : 32718710714 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction**

**Time : 0**

Discuss the muscle metabolic systems in exercise. Which of the energy systems are used in different types of sports? [7+3]

**Question Number : 4 Question Id : 32718710715 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

Discuss the role of endothelium and vascular smooth muscle in subserving the needs of the circulation. [10]

**Question Number : 5 Question Id : 32718710716 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

Compare the respiratory system in amphibian and mammalian species. [3+7]

**Question Number : 6 Question Id : 32718710717 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

Describe the properties of Cardiac muscle with special reference to that of the amphibian heart. [10]

**Question Number : 7 Question Id : 32718710718 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

a) Describe the renal handling of hydrogen ions. [5]

b) What is the difference between bicarbonate reclamation and new bicarbonate generation? [2]

c) What is plasma anion gap and its clinical application? [3]

**Question Number : 8 Question Id : 32718710719 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

a) Describe various reflexes of respiratory system. [8]

b) Discuss the difference between apnea, apneusis and apneustic breathing. [2]

**Question Number : 9 Question Id : 32718710720 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

a) Define immunity. [1]

b) What are the different phases of immune response? [3]

c) Innate lymphoid cells. [6]

**Question Number : 10 Question Id : 32718710721 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

Discuss the regulation of cerebral blood flow. Add a note on measurement of cerebral blood flow.

[6+4]