

# National Board of Examinations

<b>Question Paper Name :</b>	DNB Physiology Paper4
<b>Subject Name :</b>	DNB Physiology Paper4
<b>Creation Date :</b>	2023-10-16 09:54:31
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## DNB Physiology Paper4

<b>Group Number :</b>	1
<b>Group Id :</b>	3271872581
<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>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 Paper4

<b>Section Id :</b>	3271872584
<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>	3271872588
<b>Question Shuffling Allowed :</b>	No
<b>Is Section Default? :</b>	null

**Question Number : 1 Question Id : 32718726293 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 pathophysiology of:

- Diabetes mellitus. [5]
- Peptic ulcer disease. [5]

**Question Number : 2 Question Id : 32718726294 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 cardio-respiratory coupling during exercise. [6]
- Add a note on nutritional ergogenic aids. [4]

**Question Number : 3 Question Id : 32718726295 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 clinical relevance of following tests:

- a) Field of vision. [5]
- b) Tuning fork tests in hearing. [5]

**Question Number : 4 Question Id : 32718726296 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 physiological basis of:

- a) Female contraception. [4]
- b) Blood Grouping. [3]
- c) Phantom limb. [3]

**Question Number : 5 Question Id : 32718726297 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) Sexual maturity rating. [4]
- b) Semen analysis. [6]

**Question Number : 6 Question Id : 32718726298 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) Karyotyping and its significance. [5]
- b) Hemorrhagic viral disease. [5]

**Question Number : 7 Question Id : 32718726299 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 principal mechanisms by which acclimatization to high altitude occurs in humans. [6]
- b) Differentiate between acute and chronic mountain sickness. [4]

**Question Number : 8 Question Id : 32718726300 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 why:

- a) Hyperosmolar therapy is given in cerebral edema. [4]
- b) Exophthalmos occurs in Graves' disease. [3]
- c) Orthostatic hypotension occurs in multiple system atrophy. [3]

**Question Number : 9 Question Id : 32718726301 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) Role of radioactive isotopes in medicine. [5]
- b) Arterial blood gas analysis and its clinical relevance. [5]

**Question Number : 10 Question Id : 32718726302 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 concept of problem based learning with the help of a suitable example. [5]
- b) Role of meditation in promoting mental health. [5]