

National Board of Examinations

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| Question Paper Name : | DNB Physiology Paper2 |
| Subject Name : | DNB Physiology Paper2 |
| Creation Date : | 2021-08-25 22:34:57 |
| Duration : | 180 |
| Total Marks : | 100 |
| Display Marks: | No |

DNB Physiology Paper2

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| Group Number : | 1 |
| Group Id : | 327187232 |
| Group Maximum Duration : | 0 |
| Group Minimum Duration : | 180 |
| Show Attended Group? : | No |
| Edit Attended Group? : | No |
| Break time : | 0 |
| Group Marks : | 100 |
| Is this Group for Examiner? : | No |

DNB Physiology Paper2

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|--------------------------------|-----------|
| Section Id : | 327187235 |
| Section Number : | 1 |
| Section type : | Offline |
| Mandatory or Optional : | Mandatory |

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| 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 : | 327187239 |
| Question Shuffling Allowed : | No |

Question Number : 1 Question Id : 327187840 Question Type : SUBJECTIVE

Correct Marks : 10

Describe the different types of motility patterns observed in gastrointestinal tract. Add a note on esophageal manometry. [7+3]

Question Number : 2 Question Id : 327187841 Question Type : SUBJECTIVE

Correct Marks : 10

- a) Elaborate on the salient features and functions of microcirculation. [6]
- b) Describe the impact of rheological properties of blood on flow in microcirculation. [4]

Question Number : 3 Question Id : 327187842 Question Type : SUBJECTIVE

Correct Marks : 10

- a) Describe the neural regulation of breathing. [6]
- b) Explain the physiological basis of periodic breathing in health and disease. [4]

Question Number : 4 Question Id : 327187843 Question Type : SUBJECTIVE

Correct Marks : 10

Describe the neurological mechanisms underlying the voluntary and involuntary control of micturition. Add a note on the applied aspects. [7+3]

Question Number : 5 Question Id : 327187844 Question Type : SUBJECTIVE

Correct Marks : 10

Describe the mechanism of formation of temporary and permanent hemostatic plug. Add a note on disseminated intravascular coagulation. [7+3]

Question Number : 6 Question Id : 327187845 Question Type : SUBJECTIVE

Correct Marks : 10

a) Compare and contrast tubulo-glomerular feedback mechanism and glomerulotubular balance. [6]

b) Explain why hormones influence renal blood flow, despite autoregulation. [4]

Question Number : 7 Question Id : 327187846 Question Type : SUBJECTIVE

Correct Marks : 10

a) Define intrinsic heart rate. Elaborate on the role of various cardiovascular reflexes in regulation of heart rate. [1+5]

b) Describe Heart rate variability and its physiological correlates. [4]

Question Number : 8 Question Id : 327187847 Question Type : SUBJECTIVE

Correct Marks : 10

Compare and contrast the chemical transport mechanisms of oxygen and carbondioxide in blood. [10]

Question Number : 9 Question Id : 327187848 Question Type : SUBJECTIVE

Correct Marks : 10

Describe the principles underlying the enzymatic activity and mechanisms of various enzymes secreted by the pancreas. [5+5]

Question Number : 10 Question Id : 327187849 Question Type : SUBJECTIVE

Correct Marks : 10

Describe the role of bile in digestion and absorption of fats. Add a note on malabsorption syndrome. [3+4+3]