

# National Board of Examinations

**Question Paper Name :** DNB Physiology Paper4

**Is this Group for Examiner? :** No

**Enable Mark as Answered Mark for Review and Clear Response :** Yes

**Question Number : 1 Question Type : SUBJECTIVE**

Enumerate various anchoring proteins in a skeletal muscle fibre. Discuss a clinical condition arising due to deficiency/abnormality of any one of them. Discuss the role of electromyography in diagnosis of pathologies of muscle. [2+4+4]

**Question Number : 2 Question Type : SUBJECTIVE**

Describe mechanism, clinical features, physiological basis of prevention and treatment of Megaloblastic anemia. [3+3+2+2]

**Question Number : 3 Question Type : SUBJECTIVE**

Describe the pathophysiological basis of respiratory symptoms of COVID-19 infection. Describe the clinical & biochemical investigations of a case of Corona positive patient. Explain why a person with COVID-19 infection has anosmia and the role of treatment with zinc for the same. [5+3+2]

**Question Number : 4 Question Type : SUBJECTIVE**

Describe the pathophysiology of Obstructive Sleep Apnoea (OSA). Discuss the various modalities of treatment of the same. [5+5]

**Question Number : 5 Question Type : SUBJECTIVE**

Describe the various techniques used to assess the efficiency of Cerebral and Coronary circulation, with emphasis on recent developments. [5+5]

**Question Number : 6 Question Type : SUBJECTIVE**

Describe impedance matching and attenuation reflex highlighting their physiological significance. [5+5]

**Question Number : 7 Question Type : SUBJECTIVE**

Define obesity. Describe the pathophysiology of disorders of feeding behaviour. Add a note on newer advances in treatment of obesity. [2+5+3]

**Question Number : 8 Question Type : SUBJECTIVE**

Describe physiology of memory. Write a note on Alzheimer's disease. [5+5]

**Question Number : 9 Question Type : SUBJECTIVE**

Enumerate and describe various parametric and non-parametric statistical tests for studying differences and correlation in two different groups of subjects. [5+5]

**Question Number : 10 Question Type : SUBJECTIVE**

Discuss the role of Psychoneuroimmunology in human health and behavior. Add a note on conserved transcriptional response to adversity (CTRA). [7+3]