

National Board of Examinations

Question Paper Name :	DNB Physiology Paper3
Subject Name :	DNB Physiology Paper3
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DNB Physiology Paper3

Group Number :	1
Group Id :	327187233
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 Paper3

Section Id :	327187236
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 :	327187240
Question Shuffling Allowed :	No

Question Number : 1 Question Id : 327187850 Question Type : SUBJECTIVE

Correct Marks : 10

- a) Describe the interplay of hormones initiating and regulating ovulation. [7]
- b) Give the physiological basis of use of intra-uterine contraceptive measures. [3]

Question Number : 2 Question Id : 327187851 Question Type : SUBJECTIVE

Correct Marks : 10

Elaborate on the signaling pathways that exert orexogenic and anorexigenic actions via the hypothalamus. Add a note on hypothalamic obesity. [4+3+3]

Question Number : 3 Question Id : 327187852 Question Type : SUBJECTIVE

Correct Marks : 10

Explain the role of thalamo-cortical circuitry in maintenance of tone and posture. [10]

Question Number : 4 Question Id : 327187853 Question Type : SUBJECTIVE

Correct Marks : 10

Describe the physiological mechanisms involved in foeto-maternal interaction that leads to foetal maturity and onset of labour. [10]

Question Number : 5 Question Id : 327187854 Question Type : SUBJECTIVE

Correct Marks : 10

What is coplanar pairing of semicircular canals? Explain the physiological responses that occur when a person is subjected to horizontal acceleration in the horizontal plane. Add a note on benign paroxysmal positional vertigo. [2+5+3]

Question Number : 6 Question Id : 327187855 Question Type : SUBJECTIVE

Correct Marks : 10

Give physio-clinical significance of:

- a) Visual adaptation. [5]
- b) Auditory masking. [5]

Question Number : 7 Question Id : 327187856 Question Type : SUBJECTIVE

Correct Marks : 10

With the help of suitable diagrams, explain the mechanisms of inhibition and facilitation at synapses. [10]

Question Number : 8 Question Id : 327187857 Question Type : SUBJECTIVE

Correct Marks : 10

- a) Physiological basis of disorders of sexual development. [5]
- b) Control of onset of puberty. [5]

Question Number : 9 Question Id : 327187858 Question Type : SUBJECTIVE

Correct Marks : 10

Explain the interplay between brainstem neurons that mediate transitions between sleep and wakefulness. Add a note on sleep apnoea. [7+3]

Question Number : 10 Question Id : 327187859 Question Type : SUBJECTIVE

Correct Marks : 10

- a) Compare and contrast the molecular basis of contraction of skeletal and smooth muscle. [7]
- b) Add a note on muscular dystrophies. [3]