

National Board of Examinations

Question Paper Name :	DNB Physiology Paper2
Subject Name :	DNB Physiology Paper2
Creation Date :	2024-10-18 15:26:17
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DNB Physiology Paper2

Group Number :	1
Group Id :	3271872882
Group Maximum Duration :	0
Group Minimum Duration :	180
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	100

DNB Physiology Paper2

Section Id :	3271872885
Section Number :	1
Section type :	Offline
Mandatory or Optional :	Mandatory
Number of Questions :	10
Number of Questions to be attempted :	10
Section Marks :	100
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	3271872889
Question Shuffling Allowed :	No

Question Number : 1 Question Id : 32718730104 Question Type : SUBJECTIVE Consider As Subjective : Yes

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. a) Compare and contrast the innate and acquired immunity. [6]
- b) Explain the significance of crosstalk between innate and acquired immunity. [4]

Question Number : 2 Question Id : 32718730105 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

Describe the role of endothelium in cardiovascular regulation. [10]

Question Number : 3 Question Id : 32718730106 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

Describe with the help of suitable diagrams the action potential in SA node and ventricular muscle, its ionic basis and channels involved. [10]

Question Number : 4 Question Id : 32718730107 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

Explain the physio-clinical significance of:

- a) Irritant receptors in the airways. [3]
- b) Negative pressure in pleural fluid. [3]
- c) Oxygen-hemoglobin dissociation curve. [4]

Question Number : 5 Question Id : 32718730108 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

Discuss the Law of Laplace and its application in the following:

- a) Capillaries. [2.5]
- b) Alveoli. [2.5]
- c) Urinary bladder. [2.5]
- d) Heart. [2.5]

Question Number : 6 Question Id : 32718730109 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- a) Mucosal immune system. [5]

b) Parietal cell receptors. [5]

Question Number : 7 Question Id : 32718730110 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- a) Factors affecting basal metabolic rate. [5]
- b) Importance of enterohepatic circulation of bile salts. [5]

Question Number : 8 Question Id : 32718730111 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

Describe the Hemopoietic stem cells, its growth inducers and differentiation inducers. [10]

Question Number : 9 Question Id : 32718730112 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- a) Phasic changes of coronary blood flow during systole and diastole. [4]
- b) Diffusion of respiratory gases through respiratory membrane. [3]
- c) Neural regulation of salivary secretion. [3]

Question Number : 10 Question Id : 32718730113 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- a) Describe the determinant of glomerular filtration rate. [5]
- b) Explain the control of glomerular filtration rate. [5]