

National Board of Examinations

Question Paper Name : DNB Physiology Paper2
Subject Name : DNB Physiology Paper2
Duration : 180
Total Marks : 100
Display Marks: No

Maximum Instruction Time : 0

Question Number : 1 Question Id : 32718733714 Consider As Subjective : Yes

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 mechanism, clinical features and physiological basis of prevention and treatment of erythroblastosis fetalis. [3+3+4]

Question Number : 2 Question Id : 32718733715 Consider As Subjective : Yes

Discuss and compare the effects of bronchial asthma and pulmonary fibrosis on lung mechanics and lung functions. [5+5]

Question Number : 3 Question Id : 32718733716 Consider As Subjective : Yes

Describe the various types of motility patterns observed in gastrointestinal tract. Add a note on Achalasia cardia. [8+2]

Question Number : 4 Question Id : 32718733717 Consider As Subjective : Yes

- a) Urinary buffers. [3]
- b) Thalassemia. [3]
- c) Pulse wave analysis. [4]

Question Number : 5 Question Id : 32718733718 Consider As Subjective : Yes

Discuss the physiological basis of the circulatory dynamics in compensated and decompensated heart failure. Add a note on mechanism of action of cardiotonic drugs. [(4+4)+2]

Question Number : 6 Question Id : 32718733719 Consider As Subjective : Yes

Compare and contrast:

- a) Cardiovascular responses in isometric and isotonic exercise. [4]
- b) Static and dynamic lung compliance. [3]
- c) Hypoxic and histotoxic hypoxia. [3]

Question Number : 7 Question Id : 32718733720 Consider As Subjective : Yes

- a) Discuss the physiological basis of growth and development. [6]
- b) Draw a normal growth chart in humans and explain the various phases. [4]

Question Number : 8 Question Id : 32718733721 Consider As Subjective : Yes

Describe briefly the physio-clinical significance of:

- a) Reticulocyte response. [3]
- b) Baroreflex sensitivity. [3]
- c) Gut brain axis. [4]

Question Number : 9 Question Id : 32718733722 Consider As Subjective : Yes

- a) Discuss the role of kidney in regulating the acid base balance. [8]
- b) What is anion gap? [2]

Question Number : 10 Question Id : 32718733723 Consider As Subjective : Yes

- a) Autologous transfusion. [4]
- b) Interstitial cells of Cajal. [3]
- c) Activated plasma thromboplastin time. [3]