

National Board of Examinations

Question Paper Name : DNB Physiology Paper2

Is this Group for Examiner? : No

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

Question Number : 1 Question Type : SUBJECTIVE

Draw a well labelled diagram of Normal Electrocardiogram (ECG) in lead II. Describe the same in correlation with electrical and mechanical cardiac events. Discuss the pathophysiological basis of different types of cardiac arrhythmias and describe the gross ECG of any two. [2+4+4]

Question Number : 2 Question Type : SUBJECTIVE

Describe the changes in coronary artery circulation during a cardiac cycle in terms of flow and pressure. Describe the regulation of Coronary circulation. Discuss in brief the physiological importance of collateral channels in coronary circulation. [3+4+3]

Question Number : 3 Question Type : SUBJECTIVE

Discuss the factors that affect the diffusion across alveolo-capillary membrane. Describe the measurement of diffusing capacity of lungs. [5+5]

Question Number : 4 Question Type : SUBJECTIVE

Enumerate the functions of saliva. Describe mechanism of secretion of saliva. Discuss the regulation of secretion of salivary juice. [2+4+4]

Question Number : 5 Question Type : SUBJECTIVE

Describe nervous and hormonal regulation of GIT (Gastro-intestinal tract) functions. [5+5]

Question Number : 6 Question Type : SUBJECTIVE

Describe short term regulation of Blood Pressure. Discuss Cushing's reflex. [7+3]

Question Number : 7 Question Type : SUBJECTIVE

Define respiratory Dead space and enumerate its types. Describe the methods of measurement of the same. [4+6]

Question Number : 8 Question Type : SUBJECTIVE

Describe reabsorption and secretion of substances at Proximal Convoluted Tubules (PCT). Name the diuretics that act on this segment of tubule and describe their mechanism of action. [5+(2+3)]

Question Number : 9 Question Type : SUBJECTIVE

Enumerate various peripheral and central chemoreceptors. Discuss their physiological role in regulation of various cardiorespiratory mechanisms. [3+7]

Question Number : 10 Question Type : SUBJECTIVE

Describe Micturition reflex with suitable diagram. Name and describe two important abnormalities of micturition (abnormal bladders). [5+5]