

47, Knowledge Park-III, Greater Noida

Subject-Physiology & Biochemistry

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Subject: - Physiology & Biochemistry

Max. Marks: 70

1. Attempt all the questions.
2. Draw neat and well labelled diagrams wherever necessary.
3. Use separate answer sheets for part A & part B

Q1. Discuss the regulation of arterial blood – pressure (8)

Q2. Write Briefly on :- (2X5=10)

- a) Cardio – respiratory changes on moderate exercise
- b) Neural regulation of Respiration

Q3. Compare and contrast the following (3X4=12)

- a) Systemic Circulation and Pulmonary Circulation
- b) Heterometric and Homometric regulation of Cardiac output
- c) Secretin and Cholecysto Kinnin
- d) Haldane's effect and Bohr's effect

Q 4. Write Short Notes on : (5X2=10)

- a) Diffusion capacity
- b) Ejection fraction
- c) Deglutition
- d) Function of Bile
- e) Refractive Errors of the eye

Q1 . Describe the Source, biochemical function. RDA & Deficiency manifestation of Thiamine (5)
Q 2. Describe the process of DNA replication with labeled diagram. (5)
Q3. Describe the Primary structure of Protein (5)
Q 4. Write Short Notes on any Four :- (3X4=12)
a) Hypervitaminosis A
b) Factors Influencing calcium absorption
c) Urea cycle
d) BMR & factors affecting BMR
e) Conjugated proteins
f) Allosteric inhibition
g) Frame shift Mutation
Q5. Choose the Correct one - (1 Marks Each)
1. In later life, due to accumulation of dark pigment in cartilages & tendons, Which disease or disorder given rise to Ochronosis?
a) Alkaptonuria
b) Hartnup's Diseases
c) Cystinuria
d) Albinism
2. Deficiency of Xanthine Oxidase Causes -
a) Cystinosis
b) Cystinuria
c) Hypouricemia
d) Homocystinuria
3. Bilirubin is not excreted in urine in-
a) Obstructive Jaundice
b) Hepatic Jaundice
c) Haemolytic Jaundice
d) all of these