

[169]



SEAT No. _____

No. of Printed Pages: 2

SARDAR PATEL UNIVERSITY

B.Sc. (ZOOLOGY)- 6TH SEMESTER

PAPER CODE -US06CZ0023

TITLE: METABOLISM AND NUTRITION



DATE: 6/4/22 Wednesday

MAX.MARKS: 70

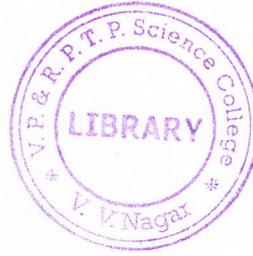
TIME: 3.00 TO 5.00 p.m

Q.1 Multiple Choice questions (Attempt all)

10

1. The Spectrum of Chemical reactions occurring in the Living system is known as?
(a) Anabolism (b) Catabolism
(c) Metabolism (d) None
2. Hyaluronic acid is _____.
(a) Carbohydrate (b) protein
(c) Lipid (d) Nucleic acid
3. Glycolysis in anaerobic Condition Produces _____.
(a) Pyruvate (b) Lactate
(c) Phosphoglycerate (d) none
4. Lipids are classified into _____.
(a) Simple (b) Complex
(c) Derived (d) all the three
5. The fatty acid and glycerol in Lipid are held together by
(a) Glyceride bond (b) Peptide bond
(c) Ester bond (d) Phosphodiester bond
6. Glycoprotein is _____.
(a) Simple protein (b) Conjugated Protein
(c) Derived protein (d) none of the above
7. Very low density lipoprotein (VLDLs) are formed in
(a) Intestine (b) Hairs
(c) Kidneys (d) Spleen
8. Metabolism during post absorptive state produces more _____.
(a) Glucose (b) Lipid
(c) Protein (d) Insulin
9. The factors contributing more heat production are
(a) Exercise (b) Hormones
(c) Nervous system (d) all the above
10. Vitamin A, D, E, K are
(a) Water soluble vitamins (b) Fat soluble vitamins
(c) Anticoagulant vitamins (d) none of the above

P.T.O.



Q2. Fill in the blanks and true and false

08

1. The electron transport chain produces _____.
2. Triglycerides are ester of _____.
3. Proteins are made up of _____.
4. The range of 25-30 kg/m are weight is known as _____.
5. The end product of glycolysis is Pyruvate (True/False).
6. Agar is a polymer of galactose sulfate and glucose (T/F).
7. Fever is also called as pyrexia (T/F).
8. Vitamins C is not water soluble (T/F).

Q3. Short answer questions (Attempt any ten)

10x2=20

1. What are Monosaccharides?
2. Give two example of Heteropolysaccharides.
3. Define Glycolysis.
4. Write in brief the importance of lipids.
5. Describe waxes.
6. What are lipoproteins?
7. Define Conjugate proteins.
8. What are Albumin and globulin?
9. What is the function of messenger RNA?
10. Define heat.
11. What are Chylomicrons.
12. Give the example of antioxidant Vitamins.

Q4. Long Answer questions (Attempt any four)

8x4=32

1. Classify Carbohydrates.
2. Describe Glycolysis.
3. Write a note on steroids.
4. Write a note on essentials fatty acids.
5. Write a note on conjugated protein .
6. Write a note on types of DNA.
7. Write a note on heat and energy balance.
8. Explain obesity.

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