

2019

Time : 3 hours

Full Marks : 100

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer five questions, selecting at least one question from each Group, in which

Q. No. 1 is compulsory.

1. Write the correct answer from the options given below : 1×20 = 20

(a) Which of the following is hexose ?

- (i) Ribose
- (ii) Arabinose
- (iii) Lylose
- (iv) Glucose

(b) Number of carbon atoms present in palmitic acid is :

- (i) 14
- (ii) 15
- (iii) 16
- (iv) 18

(c) Which one is unsaturated fatty acid ?

- (i) Stearic acid
- (ii) Valeric acid
- (iii) Lauric acid
- (iv) Arachidonic acid

(d) Aspartic acid is :

- (i) Negatively charged
- (ii) Positively charged
- (iii) Uncharged
- (iv) None of these

(e) Peptide bond is a :

- (i) Strong bond
- (ii) Weak bond

- (iii) Ionic bond
(iv) van der Waal bond
- (f) Helical structure of protein is present in :
- (i) Primary structure
(ii) Secondary structure
(iii) Tertiary structure
(iv) None of these
- (g) Synthesis of glycogen from glucose is known as :
- (i) Glycogenolysis
(ii) Glycogenesis
(iii) Gluconeogenesis
(iv) None of these
- (h) Which of the following is fat soluble vitamin ?
- (i) Vitamin A
(ii) Biotin
(iii) Niacin
(iv) Folic acid

- (i) Respiratory quotient of herbivorous animal is :
- (i) 0.80
(ii) 0.96
(iii) 0.48
(iv) 0.60
- (j) Gastric secretion is stimulated by :
- (i) Secretion
(ii) Pepsinogen
(iii) Gastrin
(iv) None of these
- (k) Animals which secrete nitrogenous waste mainly in the form of ammonia are called as :
- (i) Ureotelic
(ii) Urecotelic
(iii) Ammonotelic
(iv) None of these
- (l) Animals which show constant body temperature are called as :
- (i) Homeotherms

- (ii) Heterotherms
 - (iii) Poikilotherms
 - (iv) Telotherms
- (m) AIDS is :
- (i) Acquired immunodeficiency syndrome
 - (ii) Caused by HIV
 - (iii) A sexually transmitted disease
 - (iv) All of these
- (n) Factor XIII in blood coagulation is called as :
- (i) Labile factor
 - (ii) Stuart factor
 - (iii) Christmas factor
 - (iv) Fibrin stabilizing factor
- (o) Elevated IgA is indicator of :
- (i) Rheumatoid arthritis
 - (ii) Cirrhosis
 - (iii) Hepatitis
 - (iv) All of these

- (p) Thyroxine is derived from
- (i) Threonine
 - (ii) Tryptophan
 - (iii) Tyrosene
 - (iv) Valine
- (q) LH acts on which cells of ovary ?
- (i) Granulosa cells
 - (ii) Theca interna cells
 - (iii) Theca externa cells
 - (iv) None of the above
- (r) ADH is a :
- (i) Tripeptide
 - (ii) Hexapeptide
 - (iii) Octapeptide
 - (iv) Nona peptide
- (s) In estrogen number of carbon atoms present is :
- (i) 16
 - (ii) 18
 - (iii) 20
 - (iv) 22

(i) FSH is secreted by:

- (i) Lactotrophs
- (ii) Somatotrophs
- (iii) Gonadotrophs
- (iv) Corticotrophs

Group - A

2. Give an account of structure and classification of monosaccharides and disaccharides.

10+10 = 20

3. Discuss the different steps of glycolysis with suitable reactions.

20

4. Describe the chemistry and functions of calciferol with deficiency symptoms.

7+8+5 = 20

Group - B

5. Describe the mechanism of protein digestion in alimentary canal.

20

6. Explain the extrinsic and intrinsic coagulation of blood with suitable steps.

10+10 = 20

7. Discuss the structure and functions of testosterone and estrogen.

10+10 = 20

ZP - 10/4

(7)

(Turn over)

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Group - C

8. Describe the chemical structure and functions of ADH and Oxytocin. 10+10 = 20

9. Give an account of biosynthesis of cortisol. 20

10. Discuss the biosynthesis of thyroxine with physiological actions. 10+10 = 20



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ZP - 10/4 (1,200)

(8)

AA(H-3) - Z(5)

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