Rajiv Gandhi University of Health Sciences

I Year B.N.Y.S Degree Examination – OCT-2019

Time: Three Hours **Max. Marks: 80 Marks**

Biochemistry (RS-3)
QP Code: 2529

(QP contains two pages)

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Section - A

Multiple Choice Questions **10 X 1 = 10 Marks**

1. Which of the following carbohydrate is dietary fiber?
   a) Cellulose
   b) Starch
   c) Glycogen
   d) Insulin
2. Which of the following is a kind of secondary structure?
   a) α helix
   b) β bend
   c) Triple helix
   d) All of the above
3. Which of the following antibody is responsible for anaphylactic type of hypersensitivity and allergy?
   a) IgG
   b) IgM
   c) IgE
   d) IgD
4. Allopurinol is used in the treatment of
   a) Rickets
   b) Cancer
   c) Gout
   d) Pellagra
5. The major storage form of iron is
   a) Transferrin
   b) Ceruloplasmin
   c) Ferritin
   d) Hemosiderin
6. Unusual nucleotide pseudouridylic acid is present in:
   a) mRNA
   b) tRNA
   c) rRNA
   d) hnRNA
7. Earliest Marker of Myocardial infarction is
   a) CK-1
   b) CK-2
   c) CK-3
   d) AST
8. Bile acids are derived from
   a) Phospholipids
   b) Triacylglycerol
   c) Fatty acids
   d) Cholesterol
9. Gluconeogenesis occurs in which of the following
   a) Heart
   b) Erythrocytes
   c) Liver
   d) Lungs

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10. All of the following are air pollutants except
    a) CO_2
    b) CO
    c) SO_2
    d) H_2S

Section B

LONG ESSAYS (Answer any two) **2 X 10 = 20 Marks**

11. What is β oxidation? Outline the pathway for the oxidation of palmitic acid and give its energetic.
12. Explain the absorption, transport, utilization and loss of Iron in the body.
13. Enumerate the various liver function tests. Explain Van den Bergh reaction and enzyme estimations in relation to liver diseases.

SHORT ESSAYS (Answer any ten) **10 X 5 = 50 Marks**

14. Role of kidney in regulation of pH.
15. Isoenzymes
16. Metabolism of HDL cholesterol
17. Phospholipids
18. Glycosuria
19. Plasma proteins and its function
20. Major route of detoxification ammonia.
21. Secondary structure of protein.
22. Functions of prostaglandins.
23. Importance of cholesterol.
24. Heteropolysaccharides.
25. What is normal level of serum uric acid? How it is synthesized.

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