Name: - Maria

Id : 14704 **MID TERM ASSIGNMENT**

Roll number: -
BIOCHEMISTRY

DPT IV

MARKS: - 30

Choose the correct answer:-

1) The protein which connect extracellular matrix with inside of cell is called
   a) Proteoglycan b) collagen c) integrin d) none of them
2) Proteoglycan consists of
   a) Protein b) carbohydrates c) both a and b d) none of them
3) The percentage of collagen in human body is
a) 100% b) 50% c) 30% d) none of them
4) Collagen usually found in
   a) Bones b) muscles c) skin d) all of them
5) Elastin is made up of which amino acids
   a) Lysine b) cysteine c) serine d) none of them
6) In proteoglycan proteins combine with carbohydrates through which bond
   a) Ionic b) covalent c) polar d) none of them
7) The cytoskeleton is responsible for
   a) Cell shape b) cell movement c) both a and b d) none of them
8) Anabolism is a type of
   a) Metabolism b) catabolism c) bioenergetics d) none of them
9) Conversion of energy is study in
   a) Metabolism b) bioenergetics c) protein synthesis d) none of them
10) The process in which oxygen is needed and carbon dioxide is produced is called
   a) Metabolism b) bioenergetics c) cellular respiration d) none of them

11) Cytoskeleton proteins are
   a) Monomers b) dimers c) polymers d) none of them
12) In glycolysis, glucose is breakdown into
   a) Pentose sugar b) pyruvic acid c) citric acid d) none of them
13) The proteins in electron transport chain are of which nature
   a) Electronegative b) electropositive c) neutral d) none of them
14) Digestion of carbohydrates starts from
   a) Mouth b) stomach c) intestines d) none of them
15) Which enzyme is present in mouth for carbohydrates digestion
   a) Pepsin b) pepsinogen c) amylase d) none of them
16) The four proteins present in electron transport chain is called
   a) Simple protein b) complex protein c) conjugated protein d) none of them
17) The protein involve in electron transport chain is
   a) Flavoprotein b) heat shock protein c) collagen d) none of them
18) In how many steps glycogenesis process is completed
   a) 2 b) 3 c) 5 d) none of them
19) Gluconeogenesis is the process in which glucose is obtain from
   a) Non carbohydrates b) pyruvate c) lactate d) all a, b& c
20) The protein which is involved in glycogenesis process is called
   a) Flavoprotein b) collagen c) elastin d) none of them

21) Which of the following is not formed during the Krebs cycle

(a) Lactate b) Isocitrate c) Succinate d) Both (a) & (b)

22) A single molecule of glucose generates _____ molecules of acetyl CoA, which enters the Krebs cycle.

(a) 4 b) 3 c) 2 d) 1

23) How many steps are involve in glycolysis

a) 8 b) c) 10 d)11)

24) ribose-5-phosphate is formed from pentose phosphate pathway which is the precursor of

a) Nucleic acid b) proteins c) carbohydrates d) none of them

25) The substance that holds the body together is

a) Elastin b) proteoglycan c) collagen d) none of them

26) Most of glycogen is store in

a) Liver b) bones c) brain d) none of them

27) The process of electron transport chain takes place in

a) Mitochondrial matrix b) outer mitochondrial membrane c) cytosol d) none of them

28) Glycogenesis means

a) Synthesis of glycogen b) breakdown of glycogen c) synthesis of glucose d) none of them

29) Glycogenolysis means

a) Synthesis of glycogen b) breakdown of glucose c) synthesis of glucose d) none of them

30) Gluconeogenesis is the reverse of

a) Krebs cycle b) electron transport chain c) glycolysis

MSQ Answer

1) **C , integrin**
2) **C both a and b**
3) **C , 30%**
4) **D , all of them**
5) **A, lysine**
6) **B, covalent**
7) **C, both a and b**
8) **A, metabolism**
9) **B, bioenergetics**
10) **C, cellular respiration**
11) **C, polymers**
12) **B, pyruvic acid.**
13) **A, electronegative.**
14) **A, mouth**
15) **C, amylase.**

16) B, complex protein
17) A, flavoprotein
18) D , non of them
19) D, all a , b and c
20) D , none of them
21) A, lactate
22) C, 2
23) C , 10
24) A, nucleic acid
25) C, collagen
26) A, liver
27) A, mitochondrial matrix
28) A, synthesis of glycogen
29) B, breakdown of glycose
30) C, glycolysis.