Biochemical Disorders

1. Phenyl Ketonuria is the disease linked with which of the following amino acid metabolisms.
   - (a) Proline
   - (b) Glycine
   - (c) Phenyl Alanine
   - (d) Cysteine

2. Gout is the metabolic disease associated with over production of
   - (a) Urea
   - (b) Uric Acid
   - (c) Ammonia
   - (d) None of the above

3. Hers disease is caused by deficiency of enzyme
   - (a) Xanthine Oxidase
   - (b) Glycogen Phosphorylase
   - (c) Acid Phosphatase
   - (d) Hexokinase

4. Which of the following is correct about Gauchers Disease?
   - (a) Caused due to deficiency of Glucocerebrosidase
   - (b) Increased glucocerebrosidase
   - (c) Both A & B are correct
   - (d) None of the above

5. The disease caused by deficiency of enzyme Sphingomyelinase is:
   - (a) Niemann-Pick Disease
   - (b) Beri-Beri Disease
   - (c) Fabry Disease
   - (d) Both A & C

6. Alkaptonuria is also called
   - (a) Burning feet syndrome
   - (b) Bell’s palsy
   - (c) Cerebral palsy
   - (d) Black urine disease

7. Tangiers disease is caused by
   - (a) Over production of High Density Lipoproteins
   - (b) Reduction of High Density Lipoproteins
   - (c) Reduction of Low Density Lipoproteins
   - (d) All of the above

8. Which of the following is not an autosomal recessive disorder
   - (a) Sickle cell anemia
   - (b) Cystinuria
   - (c) Cystic fibrosis
   - (d) AIDS

9. The disease caused by over production of Xanthine oxidase enzyme.
   - (a) Gout
   - (b) Polycystic Ovary Syndrome
   - (c) Diabetes mellitus
   - (d) Addison’s Disease

10. Albinism is
    - (a) Partial or complete absence of pigment melanin in skin, hair & eyes
    - (b) Absence of enzyme tyrosinase
    - (c) Also known as Achromia
    - (d) All the above

11. Tay-sachs disease is
    - (a) Caused by over production of enzyme Hexosaminidase A
    - (b) Caused by deficiency of enzyme Aldolase
    - (c) Causes progressive deterioration of nerve cells
    - (d) Related to protein metabolism

12. Hyperkalemia is the disease caused by
    - (a) elevated sodium levels
    - (b) elevated potassium levels
    - (c) decreased sodium levels
    - (d) decreased potassium levels

13. Which of the following statements is incorrect about Diabetes mellitus?
    - (a) caused by deficiency of insulin
    - (b) symptoms are polyuria, excessive thirst and excessive hunger
    - (c) presence of glucose in urine
    - (d) blood glucose level is 70-100 mg/dl

14. Homocystinuria is treated by using which of the following vitamins.
    - (a) Vitamin-B1
    - (b) Vitamin-B6
    - (c) Vitamin-B12
    - (d) None of the above
15. Glycogen storage in the lysosomes is due to
(a) Fabry disease
(b) Schele’s disease
(c) Pompe disease
(d) Sanfilippo disease

16. Von Gierke’s disease is caused due to the deficiency of the following enzyme
(a) Glucose-6-phosphatase
(b) Fructose-6-phosphatase
(c) Arginosuccinase
(d) Phosphofructokinase

17. Galactosemia metabolic disorder is treated by
(a) taking more lactose in food
(b) taking more galactose in food
(c) avoiding glucose in food
(d) avoiding galactose and lactose in the food

18. Which of the following is not a nucleotide metabolic disease.
(a) Reye's Syndrome  (b) Lesch-Nyhan Syndrome
(c) Addisons disease  (d) Hyper uricemia

19. Hartnup disease is linked to which of the following aminoacids?
(a) Histidine
(b) Glycine
(c) Proline
(d) Tryptophan

20. Keshan disease is caused due the deficiency of
(a) Selenium
(b) Cobalt
(c) Chromium
(d) Molybdenum

Answers:
1. (c) 2.(b) 3.(b) 4.(a) 5.(a) 6.(d) 7.(b)
8.(d) 9.(a) 10.(d) 11.(c) 12.(b) 13.(d) 14.(b)
15.(c) 16.(a) 17.(d) 18.(c) 19.(d) 20.(a)

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