

148/2015

Maximum : 100 marks

Time : 1 hour and 15 minutes

1. \_\_\_\_\_ hormone is synthesised by the adeno-hypo physics and its release is stimulated by Thyroid releasing factor from the hypothalamus.  
(A) Growth hormone (B) Thyroid stimulating hormone  
(C) Gonadotrophic hormone (D) Adreno cortico trophic hormone
2. Deep within the brain the hemispheres are connected by a mass of white matter called :  
(A) Cerebellum (B) Pons varolii  
(C) Medulla oblongata (D) Corpus callosum
3. \_\_\_\_\_ is a process by which the composition and volume of the glomerular filterate are altered during its passage through the convoluted tubules, the loop of henle and the collecting tubule.  
(A) Selective reabs option (B) Secretion  
(C) Simple filteration (D) None
4. Trypsinogen and chymotrypsinogen are converted to their active form in the presence of an enzyme :  
(A) Lipase (B) Pancreatic amylase  
(C) Ptyalin (D) Enterokinase
5. \_\_\_\_\_ is a dome shaped structure separating the thoracic and abdominal cavities.  
(A) Rib cage (B) Sternum  
(C) Diaphragm (D) Vertebral column
6. In \_\_\_\_\_ disease there is progressive painless enlargement of lymphnodes through out the body, often noticed first in the neck.  
(A) Hodgkins disease (B) Malignant neoplastic metastases  
(C) Non - Hodgkin lymphomas (D) Cushing's syndrome
7. The heart acts as a pump and its action consists of a series of events known as :  
(A) Systole (B) Diastole  
(C) Cardiac cycle (D) None
8. The disease caused due to the defect in the passage of copper absorbed by the intestine into circulation :  
(A) Wilson's disease (B) Tetany  
(C) Menke's disease (D) Addison's disease

9. Renal Rickets, Milkman's Syndrome, De Toni Fanconi syndrome are the disorders associated with the increased excretion of :
- (A) Calcium (B) Magnesium  
(C) Iron (D) Phosphorus
10. The B-vitamin which can be synthesized from the essential amino acid tryptophan is :
- (A) Thiamine (B) Niacin  
(C) Pyridoxine (D) Folic acid
11. Rickets in growing children and osteomalacia in adults are produced by a deficiency of :
- (A) Vit. A (B) Vit. D  
(C) Vit. E (D) Vit. K
12. Cysteine is a ————— type of amino acid.
- (A) Sulphur containing amino acid (B) Acidic amino acid  
(C) Basic amino acid (D) None
13. Number of milligrams of KOH required to neutralize the free fatty acids in a gram of fat is known as :
- (A) Saponification Number (B) Iodine Number  
(C) Acid Number (D) Reichert-Meissl Number
14. ————— is a polyaccharide present in the exo-skeleton of invertebrates like the crab, lobster and insects.
- (A) Dextrin (B) Cellulose  
(C) Pectin (D) Chitin
15. ————— is esterified with fatty acids for storage in the liver.
- (A) Carotene (B) Retinol  
(C) Rhodopsin (D) None
16. The physical factors altering enzyme activity include :
- (A) Concentration of the enzyme and concentration of the products  
(B) pH and Temperature  
(C) Oxidising substances and Radiation  
(D) All of these
17. According to ————— theory, the enzyme combines with the substrate to form enzyme-substrate complex.
- (A) Wurtz theory (B) Michaelis-Menton theory  
(C) O'Sullivan and Thompson theory (D) Emil Fischer theory