**Shahjalal University Of Science and Technology**

**1st Professional MBBS Examination, January 2011**

**Subject: Biochemistry Paper II (MCQ)**

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| **1. The complementary base of adenine in RNA is -**  ...…a) Adenine  …..b)Thyamine  …...c) Cytocine  …...d) Guanine  …...e) Uracil  **2. Neocleotids -**  ...…a) are sugar + base  …..b) sugar + base +phosphate  …...c) play an important role in energy currency of the cell  …...d) can act as co-enzyme  …...e) non of the above.  **3. Replication of DNA occurs in which phase of cell cycle**  --------a) M  --------b) G1  --------c) Go  --------d) S  --------e) none  **4. DNA -**  ...…a) carry genetic information  …..b) helps in protein synthesis  …...c) contain uracil  …...d) present in mitochondria  …...e) contain ribose sugar.  **5 Q 4. The electrolyte composition of plasma is**  --------a) Na+ 10meq/L  --------b) Ca++ 20 meq/L  --------c) K+ 04 meq/L  --------d) HCO3-27 meq/L  --------e) CI- 103meq/L  **Q 5. Metabolic acidosis is induced by**  --------a) uncontrolled DM  --------b) vomiting (stomach content)  --------c) sever diarrhoea  --------d) renal failure  --------e) hysteria   1. **Followings are the post translational modification -**   ...…a) Phosphorylation  …..b)Hydroxylation  …...c) Glycosylation  …...d) Carboxylation  …...e) Methylation   1. **In hypothyroidism-**   ...…a) BMR increased  …..b) Serum TSH increased  …...c) Serum T3 increased  …...d) Serum cholesterol increased  …...e) TBG remains normal    **8. Insulin -**  ...…a) lowers blood glucose level  …..b) is steroid hormone  …...c) secreted from alpha cell of pancrease  …...d) cause lipogenesis  …...e) prvent ketosis  **9.Important isoenzyme in myocardial infraction-**  ...…a) CKMB  …..b) LDH  …...c) ALP  …...d) CKBB  …...e) AST/ SGOT  1**0. Acromegaly results from over production of -**  ...…a) ACTH during childhood  …..b) TSH during adult life  …...c) Growth hormone during childhood  …...d) Growth hormone during adult life  …...e) Thyroid hormone during adult life. | **11. . Hormones act by binding with cell membrane bound receptors**  --------a) insulin  --------b) glucagon  --------c) estrogen  --------d) cortisol  --------e) epinephrine  **12. Dietary forms of lipids are-**  ...…a) Phospholipid  …..b)Cholesterol  …...c) Free fatty acids  …...d) Glycerol  …...e) Triglyceride.  **13. Dietary fiber -**  …...a) are monosaccharide  .…..b) not absorbed from gut  ……c) reduce the risk of cancer  ..….d) lower the blood cholesterol  ...…e) tends to decrease stool bulk.   1. **Tick the vitamin which is a prohormone**   .a) Vit-A  .…..b) Vit-E  ……c) Vit-K  ..….d Vit -D  ..…e) Vit- C.  **15. Vitamin C -**  …...a) is an antioxidant  .…..b) inhibits absorption of non heme iron  ……c) in large does cures the common cold  ..…..d) function as a reducing agent  ....…e) requirement is increased by cigarette smoking  **16. Vitamin K is require for the synthesis of -**  ...…a) factor VII  …..b) factor V  …...c) factor X  …...d) factor II  …...e) factor III.  **17 . The specific dynamic action (SDA) is the greatest for the following foodstuff -**  …...a) Fat  .…..b) Vitamins  ……c) Protein  ..….d) Carbohydrate  …..e) Minerals  **18. Toxicity develops following prolong use of large doses of-**  ...…a) Vitamin A  …..b)Vitamin D  …...c) Vitamin B6  …...d) Vitamin K  …...e) Vitamin E  **19 Q 7. In cretinism**  --------a) child becomes idioticd  --------b) serum T3, T4 level rises and TSH level decreases  --------c) growth is retarded  --------d) BMR decreases  --------e) CNS is affected  **20. Proteinuria is-**  ...…a) Always pathological  …..b)Presence of > 150 mg/ dl of protein in urine  …...c) A liver function test  …...d) Detected by benedict’s test  …...e) Detected by heat coagulation test |