Sylhet Women’s Medical College

**2nd Term MBBS Re-Supplementary Examination**

Sub: Biochemistry

SWMC-8, (SAQ)

Full marks – 100 Time -3hrs Date -28 /01/2014

Answer all questions. Each question carry equal marks.

**GROUP-A**

1. Define metabolism. Name some anabolic & catabolic pathway of carbohydrate metabolism. 1+4

2. Why TCA cycle is called amphibolic pathway? How many ATP are produced from complete oxidation of one molecule of glucose?

2+3

3. What are the enzymes of carbohydrate digestion? How end products of CHO digestion are absorbed? What lactose intolerance. 2+2+1

4. Define bioenergetics. Mention the location & components of ETC. How ATP is produced in ETC? 1+2+2

5. Define Transamination & Deamination with example. What are the fates of ammonia?

3+2

6. Name the ketone bodies. How they are synthesized & utilized? 1+4

7. Define & classify lipoprotein. What the metabolic fates of chylomicron. 1+1+3

8. What are the end products of lipid digestion? How they are absorbed? 2+3

9. Define gluconeogenesis. What are the substrates for gluconeogenesis. Give its significance.

1+2+2

10. What are the important of cholesterol? How it is synthesized? 2+3

**GROUP-B**

1. Define & classify vitamins. Enumerate the co enzymes derived from vitamin B complex with their deficiency features. 1+2+2

2. What are common nutritional problem is Bangladesh? State the difference between kwashiorkor & marasmus.

2+3

3. Write the properties of water & fat soluble vitamins. State the function and deficiency features of vitamin A.

3+2

4. Mention the Source, RDA function, & deficiency manifestations of Iron.

5

5. Calculate the calorie requirements of 50 kg medical student (Female) Prescribe her balanced diet.

2+3

6. What is Glycemic index? Mention advantage & disadvantage of dietary fibre . 1+2+2

7. What is BMR. How energy is used in the body? Mention the factors affecting BMR.

2+1+2

8. What are toxic vitamins? Why they are toxic? Name the antioxidant vitamins with their chemical name.

1.5+1.5+2

9. Write short notes on: i) PUFA ii) Obesity. 2.5+2.5

10. What do you mean by trace elements? State the function of iodine &, zinc. 1+4