**Department of Biochemistry**

Sylhet Women’s Medical College

Supplementary card final examination on

“**Bioenergetics ,digestion, absorption and metabolism”,**

SWMC-10 SAQ

Full Marks 40 Time: 1.20 min, Date: 09. 09. 2015

*(Answer any eight (8) questions. Each questions carry equal marks)*

1. Define Bioenergetics. Draw & level a ETC with site of inhibitors action. (2+3)
2. What are the dietary lipids? how they are digested and absorbed from GIT? (2+3)

1. Name the ketone bodies. Give some condition characterized by excessive production of ketone bodies. Explain derangements and consequences of Ketosis. (1 +2+2)

1. What are the sources and fates of acetyl CoA in the body? How many ATP produced from one molecule of acetyl CoA in TCA cycle ? (3+2)

1. Define glycolysis. Mention the irreversible steps of glycolysis. State the importance of anaerobic glycolysis. (1+2+2)
2. What is oxidative deamination? How ammonia is disposed from the body? ( 2+3)

1. State the importance of HMP shunt pathway and gluconeogenesis. Name the rate limiting enzyme of HMP pathway. (2+2+1)

1. Draw and label lipoprotein structure. State the metabolic fate of chylomicron. (2+3)

9. Write short notes on: 1) Lectose intolerance. 2) Redox potential. (2.5+2.5)