BIOCHEMISTRY 1
MAY/JUNE 2015

SECTION-B (SAQ)

2. Short answer question (Any six out of seven) (6x4=24)

a) Explain the pattern of various enzymes and isoenzymes in myocardial infarction

b) Write a note on point mutations and their

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c) A 55 year old man came to the orthopedic OPD with complaints of pain, redness and swelling in the left great toe. Investigations revealed serum uric acid concentration of 10 mg/dl.

i) What is the probable diagnosis?

ii) Describe the various types of this disease

iii) Mention the drug that can be used to treat this and explain its mechanism of action of action.

d) Explain oxidative phosphorylation. Write a note on thermogenin

e) Draw a neat labelled diagram of the common features of an immunoglobulin molecule. Describe any one immunoglobulin in detail.

f) Describe the secondary structure of proteins with suitable examples

g) Define the terms Basal Metabolic Rate(BMR) and specific dynamic action of food. Explain how various factors affect BMR.

SECTION-C-(LAQ)

3. Long answer question (Any two out of three) (2X8=16)

a) Explain the formation and fate of ammonia in the body

b) Explain the process of catabolism of heme. Write a note on causes and biochemical findings in hemolytic jaundice.

c) Explain the absorption, biochemical roles deficiency manifestations of cobalamin (Vitamin B12) and folic acid