

RUHS FIRST YEAR MBBS EXAMINATION**BIOCHEMISTRY- PAPER - I****January 2016 TIME: 3 HOURS TOTAL MARKS: 50****INSTRUCTIONS:**

1. Que. No. 1 and 5 in section A and B are compulsory. Attempt ANY TWO questions from rest of the questions in each section.
2. Use separate answer sheet for each section.

Section A

Q1. What are ketone bodies? Explain the reaction

leading to their formation. How are they

utilized in the body? (A. 296)

Q2. Write the reaction by which glycine is

synthesized and catabolised. Name four

important compounds derived from glycine and

indicate their functions (A. 343)

Q3. a) Describe how galactose is converted into glucose. Discuss the metabolic errors associated with this pathway. (A. 278)

b) Glycogen storage diseases. (A. 269)

Q4. Write in brief on

a) Lipotropic Factors (A. 326)

b) SDA (A. 503)

b) Phenylketonuria (A. 352)

d) LeschNyhan Syndrome (A. 397)

SECTION B

Q5. Give the sources of carbon and nitrogen atoms of purine ring. Describe de-novo synthesis and

regulation of purines (A. 73,389)

Q6. a) Explain chemiosmotic theory (A. 228)

b) Isoenzymes and their significances (A. 114)

Q7. Discuss about the coenzymes functions with examples of

- a) Vitamin K (A. 133)
- b) Thiamine (A. 138)
- b) Niacin (A. 142)
- d) Biotin (A. 150)

Q8. Write short note on

- a) Role of antioxidants in health and diseases (A. 632)
- b) Nucleotides (A. 72)

- c) Obstructive jaundice(A. 215)
- d) Dietary fibers (A. 507)

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