

# The West Bengal University of Health Sciences MBBS 1st Professional (Supplementary) Examination 2014

Subject : Biochemistry Paper : II

Full Marks : 50 Time : 21/2 hours

Use Separate answer Script for each group Attempt all questions. The figures in the margin indicate full marks

### Group - A

Describe in detail how blood sugar level is maintained at a constant level in post absorptive State. Use a flow diagram. 12

or

Discuss the dietary source, absorption in the gut, transport, storage in the tissues and utilization of iron in the body. 2+2+3+2+3

#### Group - B

Answer any two of the following:

2 x 7

- Give a brief account of different types of mutation with examples.
- Describe the role of glutathione, glucuronic acid and glutamine in the process of detoxification.
- Describe how one carbon compounds are utilized in the body mentioning the names of the donors and acceptors of those compound.

## Group - C

3. Write short notes on any four of the following:

 $4 \times 3$ 

- a) Lecithin cholesterol acyl transferase.
- b) Protooncogenes.
- Cytochrome P450.
- d) DNA sequencing.
- Wald's visual cycle.

## Group - D

Explain the following statements:

 $4 \times 3$ 

- Vitamin K takes part in the mechanism of blood coagulation;
- Replication fork is the main constituent for DNA replication;
- Glycosuria can happen even with the absence of hyperglycemia;
- Ketosis cannot lead to increased cholesterol synthesis.