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2019 Scheme

Q.P. Code: 115001

Reg. no.:

First Professional MBBS Degree Supplementary (SAY) Examinations August 2021 Biochemistry - Paper I

Time: 3 Hours

Total Marks: 100

- Answer all questions to the point neatly and legibly Do not leave any blank pages between answers Indicate the question number correctly for the answer in the margin space • Answer all parts of a single question together
- Leave sufficient space between answers Draw table/diagrams/flow charts wherever necessary Long Essays (2x15=30)
- A 50 years old man with 3 years history of hypertension and occasional panic attacks reported to hospital with episode of throbbing headache, associated with excessive sweating. He gave history of similar attacks earlier. On examination, his BP was 180/100 mm Hg and pulse was 82/min. urine examination revealed very high levels of 24 hrs VMA.
 - What is the probable diagnosis
 - Name the aromatic amino acids
 - Describe the biochemical basis of symptoms and urinary finding
 - Describe the synthesis of any two biochemically important compounds from the parent amino acid (1+1+5+8)
- 2. Name the ketone bodies. Describe their synthesis and catabolism. Write the causes of ketosis. (2+10+3)

Short essays

- 3. Define porphyria. Classify porphyria and enumerate their salient features. Add a note on acute intermittent porphyria (1+4+3)
- 4. Cori's cycle and its significance
- 5. Draw a neat labeled diagram of electron transport chain. Add a note on chemiosmotic hypothesis (5+3)
- Describe the coenzyme form, sources, biomedical role and deficiency manifestation of syndrome (1+1+4+2)
- 7. Glycemic index: definition and importance

Short answers

- 8. Lysosomes
- 9. Lipotrophic factors
- 10. Brown adipose tissue.
- 11. Folate trap

12. Functions of cholesterol

Give Precise Answers

- 13. Power house of the cell is ------
- 14. Marker enzyme for Golgi apparatus
- 15. Give two salient points to compare and contrast hexokinase and glucokinase
- 16. Function of albumin responsible for preventing edema
- 17. Enzyme defect in Von Gierkes disease
- 18. Biochemical defect in Lactose intolerance
- 19. Hetero polysaccharide having anticoagulant function
- 20. Rate limiting enzyme in cholesterol synthesis
- 21. Define gluconeogenesis
- 22. Normal value of total serum protein

(10x1=10)

(5x8=40)

(6+2)

(2+6)

(5x4=20)

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