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# **GS-314**

IV Semester B.Sc. Examination, May/June - 2019

### **BIOCHEMISTRY**

## Biochemistry - IV (CBCS) (F+R) (2015-16 & Onwards)

Time: 3 Hours Max. Marks: 70

Instructions: (i) The question paper has two parts: Part A and Part -B

(ii) Answer **any eight** questions from Part A

(iii) Answer **any nine** questions from Part B

### PART - A

Answer any eight of the following questions. Each question carries two marks. 8x2=16

1. What are zymogens? Give an example.

2. Mention the role of osteoblast and osteoclast collection

3. Give any two functions of plasma proteins.

4. What is Bohr's effect?

- 5. Mention any two hormones involved in regulation of heart rate.
- 6. Give any two functions of parathyroid hormone.
- 7. What is insulin clearance test?
- 8. Give the classification of neurons with an example for each.
- 9. What is respiratory quotient? Calculate the RQ of carbohydrates.
- 10. What are macro minerals? Give any two examples.
- 11. What are dietary fibers?
- 12. Give the role of Creative phosphate in muscle.



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(b)

#### PART - B

Answer any nine of the following questions. Each question carries six 9x6 = 54marks. 4+2 Discuss the structure and functions of collagen. 13. (a) Give any two functions of hormones of adrenal cortex. (b) 4+2 14. (a) Outline the extrinsic pathway of blood coagulation. Draw a neat labelled diagram of human respiratory system. (b) Give the composition and functions of gastric juice. 15. (a) 4+2 What is myelin sheath? Mention its significance. (b) Discuss the role of Kidneys in maintenance of acid base balance. 4+2 16. (a) Give the composition of lymph. (b) 4+2 Describe the sliding filament theory of muscle. 17. (a) What are muscular dystrophies? Give an example. (b) 18. (a) Describe the various steps involved in tubular reabsorption and secretion. 4+2 What is erythropoiesis? (b) Describe the mechanism of transmission of action potential. **19.** (a) 4+2 What is renal failure? (b) HAGA 20. (a) Define RDA. Mention its significance. Mention any two factors that affect BMR. (b) KGF - 563 12 **21.** (a) Discuss the digestion and absorption of lipids. 4+2 What are haemorahages? (b) Mention the source, daily requirement, functions and deficiency 4+2 **22.** (a) symptoms of potassium.

Give the sources and function of Vitamin B<sub>12</sub>

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