

DECEMBER 2017

U/ ID 14805/UCQD

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Time : Three hours

Maximum : 100 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions, each in 50 words.

1. Ribosomes.
2. Features of synovial joint.
3. Fertilization.
4. Gastrulation.
5. Skeletal muscle.
6. Ovulation.
7. Epigenesis.
8. Islets of langerhans.
9. Artery.
10. Tetany.

PART B — (5 × 6 = 30 marks)

Answer ALL questions each in 250 words.

11. (a) Glomerular filtration rate.

Or

(b) Mechanism of micturition.

12. (a) Define erythropoiesis and a note on anaemia.

Or

(b) Functions of saliva.

13. (a) Ovarian cycle.

Or

(b) Foetal Circulation.

14. (a) Neuro muscular junction.

Or

(b) Describe the transport of oxygen from lungs to the tissue.

15. (a) Active transport.

Or

(b) Synapse.

PART C — (5 × 10 = 50 marks)

Answer ALL questions, each in 500 words.

16. (a) Define arterial blood pressure and mention the normal values. Describe in detail the regulation of blood pressure.

Or

- (b) Discuss the secretion, functions and regulation of testosterone.

17. (a) Functions of gastric juice and different phases of gastric secretion. Functions, composition and regulation of pancreatic secretion.

Or

- (b) Define fasting blood glucose and the hormones regulating blood glucose level and its mechanism of regulation.

18. (a) Define homeostasis and explain positive and negative feedback.

Or

- (b) Define physiology of aging.

19. (a) Define mitosis and explain the differences between mitosis and meiosis.

Or

- (b) Define protein synthesis.

20. (a) Explain the mechanism of urine formation.

Or

(b) Explain thyroid functions.

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