QP Code: 11202 &11203

Subject: General Human Physiology & Biochemistry

Part II

Section A & Section B should be answered in separate answer books

QP Code: 11202

Section A General Human Physiology

(30 Marks)

I LONG ESSAY

1x10=10 Marks

1. Describe the chemical regulation of respiration.

II SHORT ESSAYS

2x5=10 Marks

- 2. Juxtaglomerular apparatus.
- 3. Factors affecting heart rate.

III SHORT ANSWERS

5x2=10 Marks

- 4. Define erythrocyte sedimentation rate (ESR). What is its normal value?
- 5. Mention any four functions of saliva.
- 6. Where does facultative re-absorption of water occur in kidneys? Which hormone is responsible for it?
- 7. Name the hormones of posterior pituitary gland? Where are they synthesized?
- 8. Name any four properties of synapse.

QP Code: 11203

Section B

Biochemistry

(30 Marks)

I LONG ESSAY

1x10=10 Marks

- 9. Describe the sources, recommended daily allowance (RDA), functions and deficiency manifestations of vitamin A.
 - 2+2+2+4=10

II SHORT ESSAYS

2x5=10 Marks

- 10. Draw electron transport chain and mark the sites of ATP formation.
- 11. Factors regulating blood calcium level.

III SHORT ANSWERS

5x2=10 Marks

- 12. Name the key gluconeogenic enzymes.
- 13. Km value and its significance.
- 14. Define epimerism with an example.
- 15. Role of carnitine in β oxidation.
- 16. Name the enzyme deficient in a) Phenylketonuria b) Niemann-Pick disease.

I B. DS (1287) DEC-2018.

QP Code: 11201

Subject: General Human Anatomy Including Embryology, Osteology, Histology & Medical Genetics

Part II

I LONG ESSAY 2x10=20 Marks

- 1. Describe the thyroid gland under the following headings:
 - a) Coverings
 - b) Parts
 - c) Relations
 - d) Blood supply.

(1+1+4+4)

- 2. Describe the maxillary sinus under the following headings:
 - a) Boundaries
 - b) Bones reducing maxillary hiatus in size
 - c) Opening
 - d) Applied anatomy.

(4+1+3+2)

II SHORT ESSAY

4x5= 20 Marks

- 3. Oropharynx.
- 4. Microscopy of circumvallate papillae of tongue.
- 5. Nerve supply of scalp.
- 6. Lateral pterygoid.

III SHORT ANSWERS

10X2=20 Marks

- 7. Opening and two structures pierced by Stensen's duct.
- 8. Classify dural venous sinus.
- 9. Name the fontanelles of skull.
- 10. Mention four congenital anomalies of face.
- 11. Draw the structure of a synovial joint.
- 12. Origin and termination of internal jugular vein.
- 13. Name the muscles of soft palate.
- 14. Mention four relations of cervical part of trachea.
- 15. What are the parts of occipitofrontalis? Give their nerve supply.
- 16. Name the four cutaneous nerves seen in posterior triangle.
