

I B.S (R.S.I) DEC-2017

QP Code: 11201

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

Part II

LONG ESSAY

2x10=20 Marks

1. Describe the tongue under the following headings:
(1+3+3+3)
 - a. Parts
 - b. Classification of muscles
 - c. Development
 - d. Lymphatic drainage
2. Describe the posterior triangle of neck under the following headings:
(4+1+3+2)
 - a. Boundaries
 - b. Divisions
 - c. Contents
 - d. Applied anatomy

SHORT ESSAY

4x5= 20 Marks

3. Describe carotid sheath.
4. Significance of tentorium cerebelli.
5. Microscopic structure of elastic cartilage.
6. Anatomy of nasal septum.

SHORT ANSWERS

10X2=20 Marks

7. Name the parts of temporal bone.
8. Mention the skeletal derivatives of 2nd pharyngeal arch.
9. Enumerate the structures passing through foramen ovale.
10. Origin and termination of facial vein.
11. Name the emissary veins of scalp.
12. Enlist four branches of external carotid artery.
13. Waldeyer's lymphatic ring.
14. Clinical importance of 4th layer of scalp.
15. Name four parasympathetic ganglia of head and neck region.
16. Mention four features of axis vertebra.

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)

LONG ESSAY

1x10=10 Marks

1. Describe erythropoiesis with labeled diagram

SHORT ESSAYS

2x5=10 Marks

2. Write the importance of artificial respiration.
3. Enlist the functions of hypothalamus.

SHORT ANSWERS

5x2=10 Marks

4. Define jaundice. What is the normal serum bilirubin level?
5. What is a nephron? How many nephrons are present in the human body?
6. Name the parts of conducting system of the heart.
7. List four features of hyperthyroidism.
8. Mention four female contraceptive methods.

QP Code: 11203

**Section B
Biochemistry**

(30 Marks)

LONG ESSAY

1x10=10 Marks

9. Define β oxidation. Write the steps of β oxidation. Add a note on energetics of palmitic acid oxidation.

(1+5+4)

SHORT ESSAYS

2x5=10 Marks

10. Differential diagnosis of jaundice.
11. Define detoxification. Write the steps of detoxification with examples.

SHORT ANSWERS

5x2=10 Marks

12. Isoenzymes.
13. Structure of t-RNA.
14. Metabolic acidosis.
15. Essential fatty acids and their functions.
16. Write the
 - a. Normal fasting and post-prandial blood glucose level.
 - b. Name two hyperglycemic hormones.

I. B. D. S (125 I) DEC-2017

QP Code: 11204

Subject: Dental Anatomy, Embryology and Oral Histology

Part II

LONG ESSAY

2x10=20 Marks

1. Enumerate and describe the stages in the life cycle of an ameloblast.
2. Describe the dental anatomy of permanent mandibular second premolar.

SHORT ESSAY

4x5=20 Marks

3. Causes of dentine sensitivity.
4. What is serous salivary gland? Mention its histological features.
5. Describe occlusal aspect of permanent maxillary first molar.
6. Composition and functions of saliva.

SHORT ANSWERS

10x2= 20 Marks

7. What is enamel spindle?
8. Types of taste buds.
9. What is reparative dentine?
10. Define curves of Spee and Monson.
11. Chronology of permanent teeth eruption
12. What is cusp of Carabelli?
13. Matrix vesicle theory.
14. Effect of flourosis.
15. Vermilion border.
16. Mention lingual swellings.
