



Time: 3 Hrs.

[Max. Marks : 100]

HUMAN ANATOMY INCLUDING EMBRYOLOGY & HISTOLOGY (RS & RS2)

QP Code: 1151

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

- Describe the pharynx under the following headings:
a) Extent b) Relations c) Subdivisions d) Blood Supply e) Nerve supply
- Describe the scalp under the following headings:
a) Extent b) Layers c) Blood supply d) Nerve supply e) Applied Anatomy

SHORT ESSAY

10 X 5 = 50 Marks

- Hyoid bone
- Trigeminal ganglion
- Development of tonsil
- Histology of pancreas
- Articular disc of temporomandibular joint
- Buccinator muscle
- Veins of face
- Lingual nerve
- Lymphatic drainage of tongue
- Metopic suture

SHORT ANSWERS

10 X 3 = 30 Marks

- Zygomatic arch
- Infrahyoid muscle
- Chorion
- Nasal septum
- Lateral pterygoid muscle
- Internal jugular vein
- Ciliary ganglion
- Muscles attached to styloid process
- Straight venous sinus
- Digastric muscle

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Time: 3 Hrs.

[Max. Marks : 100]

HUMAN PHYSIOLOGY & BIOCHEMISTRY (RS & RS2)

Your answer shall be specific to question asked. Draw neat and labelled diagrams wherever necessary. Use separate answer books for section A and section B.

QP Code: 1152 - Section A - HUMAN PHYSIOLOGY [60 Marks]

LONG ESSAY

1 X 10 = 10 Marks

1. Describe the structure of the Adrenal cortex. Name the hormones secreted by it. Discuss the function of any one of them

SHORT ESSAY

7 X 5 = 35 Marks

2. Trace the pathway for crude touch
3. Discuss the role of vagus on the heart
4. Is Eupnea voluntary or involuntary? How is it brought about?
5. Give the functions of platelets
6. Define reflex action and describe Babinski sign
7. Describe entero hepatic circulation of bile salts
8. Name the three main protein fractions of plasma. Give the function of any one of them

SHORT ANSWERS

5 X 3 = 15 Marks

9. Dwarfism versus cretinism
10. Cystometrogram
11. P-R interval
12. Marey's law
13. Chelating agents

QP Code: 1153 - Section B - BIOCHEMISTRY [40 Marks]

Use separate answer book

LONG ESSAY

1 X 10 = 10 Marks

1. Describe β -oxidation of palmitic acid. How many ATP's are produced by the complete oxidation?

SHORT ESSAY

3 X 5 = 15 Marks

2. What is 'S-Adenosyl methionine (SAM)? How is it formed and what is its importance?
3. What is the normal serum calcium level? Write briefly on the role of calcium in the body
4. What are Immunoglobulins?

SHORT ANSWERS

5 X 3 = 15 Marks

5. What are essential amino acids?
6. Classify Lipids, giving one example each
7. What is calorific value?
8. Name the vitamin which have antioxidant properties
9. Name one reducing and one non-reducing disaccharide

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Time: 3 Hrs.

[Max. Marks : 100]

DENTAL MATERIALS (RS & RS2)

QP Code: 1154

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Define setting time of gypsum products Mention and explain different methods of measuring setting time Add a note on theories of setting time and disinfection of gypsum products
2. Name the various anterior esthetic restorative materials used Write the composition, properties and manipulation of hybrid composite. Add a note on sandwich technique

SHORT ESSAY

10 X 5 = 50 Marks

3. Tissue conditioners
4. Injection molding technique
5. Manipulation of amalgam alloy
6. Annealing and its purpose
7. Denture base materials
8. 18-8 stainless steel
9. Galvanic corrosion
10. Casting defects
11. Properties of dental solder
12. Condensation of dental porcelain

SHORT ANSWERS

10 X 3 = 30 Marks

13. Pickling
14. Contact angle and its significance
15. Glazing of dental porcelain
16. Glass cermet cement
17. Thermal insulating base
18. Strain hardening
19. Delayed expansion
20. Sticky wax
21. Laminate technique
22. Coefficient of thermal expansion
