

I B.D.S Internal Examination -2019-2020

Time: Three Hours

Max. Marks: 70 Marks

Your answers should be specific to the questions asked

Draw neat, labelled diagrams wherever necessary

LONG ESSAYS

2 x 10 = 20 Marks

SRI SAI COLLEGE OF DENTAL SURGERY

PHYSIOLOGY

1. What is blood ? What are the functions of blood? Outline steps of Erythropoiesis

SHORTS

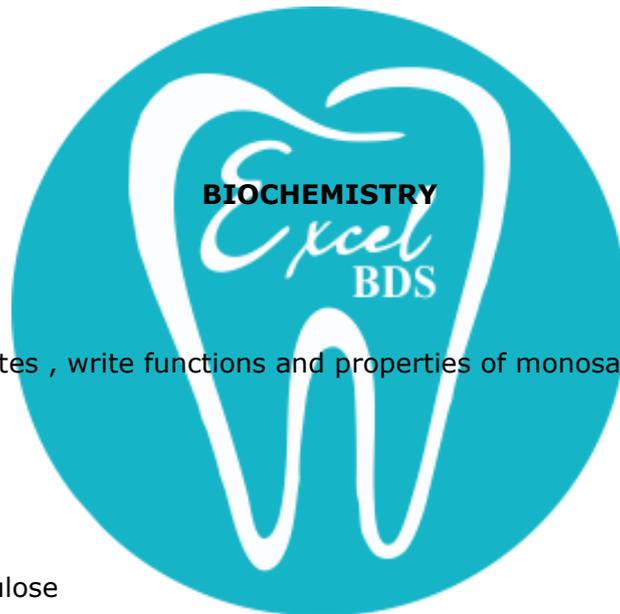
2. Function of platelets
3. Homeostasis
4. Blood indices
5. Blood groups

LONG

1. Define carbohydrates , write functions and properties of monosaccharaides .

SHORTS

2. Disaccharides.
3. Glycogen and cellulose
4. Mucopolysaccharides
5. Aromatic amino acids



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DENTAL ANATOMY & DENTAL HISTOLOGY

1. Describe the chronology and morphology of different aspects of permanent maxillary right central incisor
2. Enumerate the stages of tooth development. Write in detail about cap stage.

SHORTS

3. Describe various stages of deglutition
4. Histology & functions of maxillary sinus
5. Tooth numbering systems
6. Differences between deciduous and permanent teeth
7. Structure of taste buds

VERY SHORTS

8. Dental lamina
9. Dental formula for deciduous & permanent teeth
10. Cingulum
11. Mamelons
12. Traits. Types of traits
13. Embrasure



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DENTAL ANATOMY, DENTAL HISTOLOGY & ORAL PHYSIOLOGY

1. Describe in detail the morphological stages in the development of tooth . Add a note on

formation of root

2. Discuss in detail about permanent maxillary right central incisor

SHORTS

3. Difference between deciduous and permanent teeth

4. Incremental lines of enamel . Dentin and cementum

5. Enamel lamellae, tufts and spindles

6. Differences between cellular and acellular cementum

7. Physiological stages of tooth development

8. Types of dentin

9. Denticles

10. Tooth numbering systems

VERY SHORTS

11. Hyaline layer of hopewell and smith

12. Plexus of rashkow

13. Cell of serres

14. Enamel knot and cord

15. Neural crest cells

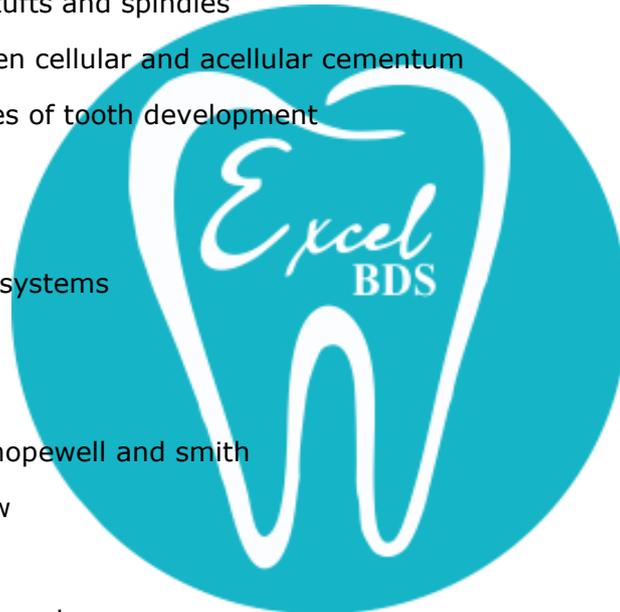
16. DEJ

17. Osteodentin

18. Fossa

19. Functions of pulp

20. Cingulum



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COLLEGE OF DENTAL SCIENCES:DAVANGERE

ANATOMY

1. Describe the scalp under the following headings

- (a) Location & features
- (b) Blood supply
- (c) Relations
- (d) Development

SHORTS

- 2. Muscles of mastication
- 3. Internal jugular vein
- 4. Spermatogenesis
- 5. Histology of hyaline cartilage

VERY SHORTS

- 6. Fertilization
- 7. Pterion
- 8. Name the branches of facial artery
- 9. Histology of large size artery
- 10. Name the contents of posterior triangle of neck



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BIOCHEMISTRY

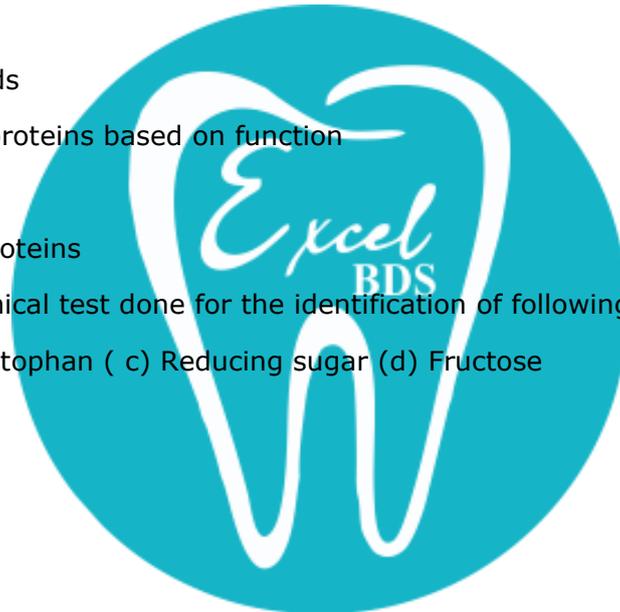
1. Define enzymes, classify enzymes (IUB) Giving examples for each class

SHORTS

2. Heteropolysaccharides
3. Watson & crick model of DNA
4. Biochemical functions of vitamin D

VERY SHORTS

5. Essential fatty acids
6. Classifications of proteins based on function
7. Phospholipids
8. Denaturation of proteins
9. Name the biochemical test done for the identification of following compounds
(a) Cysteine (b) Tryptophan (c) Reducing sugar (d) Fructose



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KAMINENI INSTITUTE OF DENTAL SCIENCES

BIOCHEMISTRY

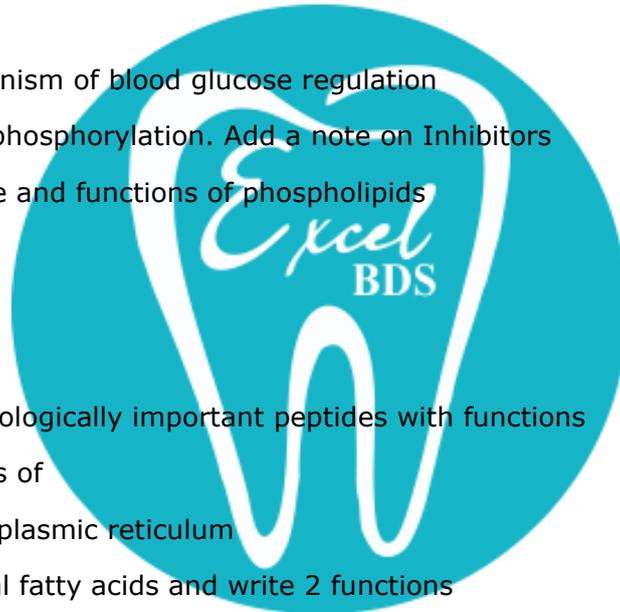
1. Write about dietary sources, RDA, Biochemical functions and deficiency manifestations of vitamin D. Add a note on vitamin like compounds.

SHORTS

2. What are the Isoenzymes ? Give two examples and mention their clinical significance
3. Explain the mechanism of blood glucose regulation
4. Explain oxidative phosphorylation. Add a note on Inhibitors
5. Write the structure and functions of phospholipids

VERY SHORTS

6. Active transport
7. Explain any two biologically important peptides with functions
8. Write the functions of
(a) Nucleus (b) Endoplasmic reticulum
9. Name the essential fatty acids and write 2 functions
10. Write serum reference ranges of
(a) Albumin (b) Total proteins
(c) FBS (d) PPBS



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GENERAL PHYSIOLOGY

1. Describe the composition, functions and regulations of Gastric secretions?

SHORTS

2. Secondary Active Transport
3. Excitation Contraction Coupling
4. Intrinsic pathway of coagulation
5. Draw and label diagram of Neuro Muscular Junction (NMJ)

VERY SHORTS

6. Four functions of Plasma Protein
7. Define And Classify (Etiological) Anaemia
8. Sarcomere
9. Apoptosis
10. Endoplasmic Reticulum



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S.N. DENTAL COLLEGE

BIOCHEMISTRY

1. Define and classify Carbohydrates. Add a note on Functions and Composition of any four mucopolysaccharides.

SHORTS

2. Classify Enzymes with one example for each class
3. Immunoglobulins. Structure and functions
4. Structures & functions of t-RNA

VERY SHORTS

5. What are essential Fatty acids? Give examples
6. Denaturation of proteins
7. What are therapeutic Enzymes? Give one example
8. Chargaff's Rule
9. Rancidity



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PHYSIOLOGY

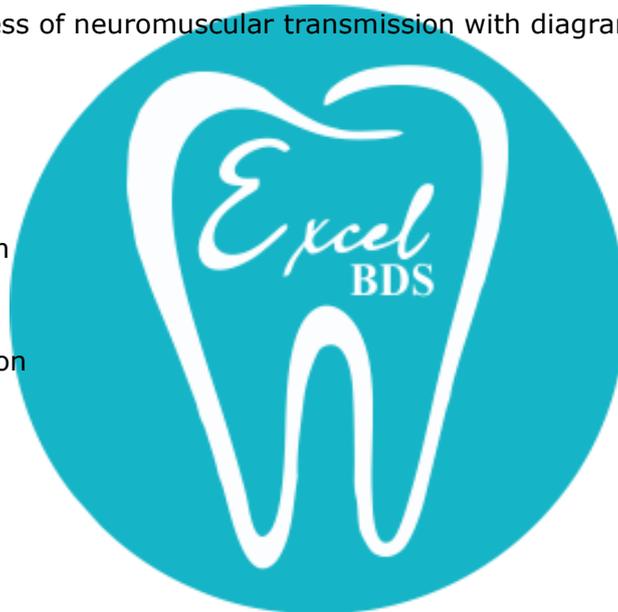
1. Describe various stages of Erythropoiesis and describe the factors regulating Erythropoiesis

SHORTS

2. Mention pacemaker tissues of heart. Describe conducting system of the heart with a neat labelled diagram
3. Define Homeostasis. Explain negative feed- back mechanism with Example
4. Describe the process of neuromuscular transmission with diagram

VERY SHORTS

5. Neuroglia
6. Facilitated diffusion
7. Gap junction
8. Saltatory conduction
9. Heart sounds



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PHYSIOLOGY

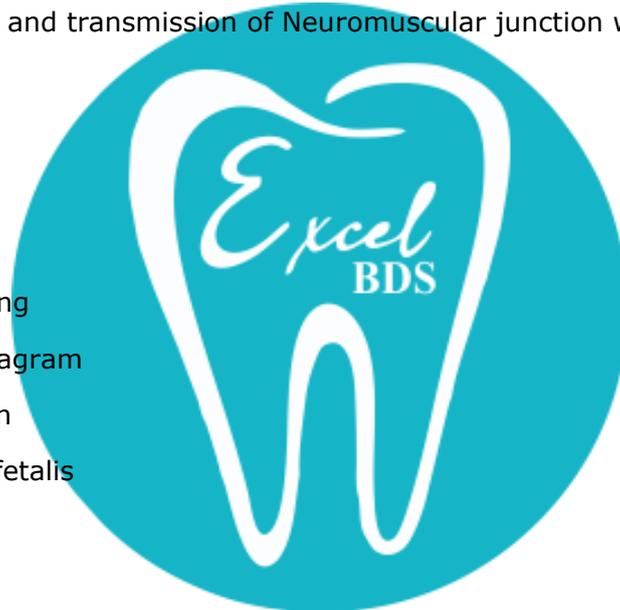
1. Define clotting. Name the clotting factors. Explain intrinsic and extrinsic mechanism.

SHORTS

2. Conducting system of heart with neat labelled diagram
3. Second phase of deglutition
4. Fate of Haemoglobin
5. Describe structure and transmission of Neuromuscular junction with neat labelled diagram

VERY SHORTS

6. Phagocytosis
7. Saltatory conducting
8. Sarcomere with diagram
9. Facilitated diffusion
10. Erythroblastosis fetalis



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DENTAL ANATOMY & DENTAL HISTOLOGY

1. Enumerate histological stages of tooth development and write in detail about bell stage

SHORTS

2. Development of mandible

3. Difference between maxillary and mandibular incisors

4. Pharyngeal arches

5. Tooth notation systems

VERY SHORTS

6. Neural crest cells

7. HERS

8. Enamel knot

9. Chronology of permanent dentition

10. Ridges



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KAMINENI INSTITUTE OF MEDICAL SCIENCES

ANATOMY

1. Describe scalp under following headings

A. Layers B. Blood supply C. Nerve supply D. Applied anatomy

2. (a) Name extra ocular muscles

(b) Write their origin, insertion nerve supply and action

SHORTS

3. Posterior triangle

4. Cavernous sinus

5. Sutural joints(sutures)

6. Histology of lymph node

7. Draw neat labelled diagram of Graafian follicle

8. Superior orbital fissure

9. Styloid process

10. Pterion

VERY SHORTS

11. Anterior fontanelle

12. Blood supply of thyroid gland

13. Name the meninges

14. Diaphragm sellae

15. Name two muscles enclosed by deep cervical fascia

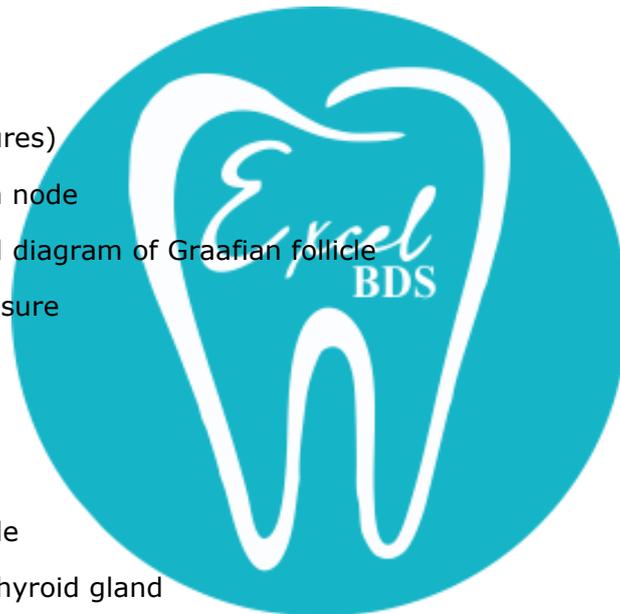
16. Ramus of mandible

17. Steps of spermatogenesis

18. Five branches of facial nerve in face

19. Name unpaired Dural venous sinuses

20. Epidermis layer



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AL-BADAR RURAL DENTAL COLLEGE

PHYSIOLOGY

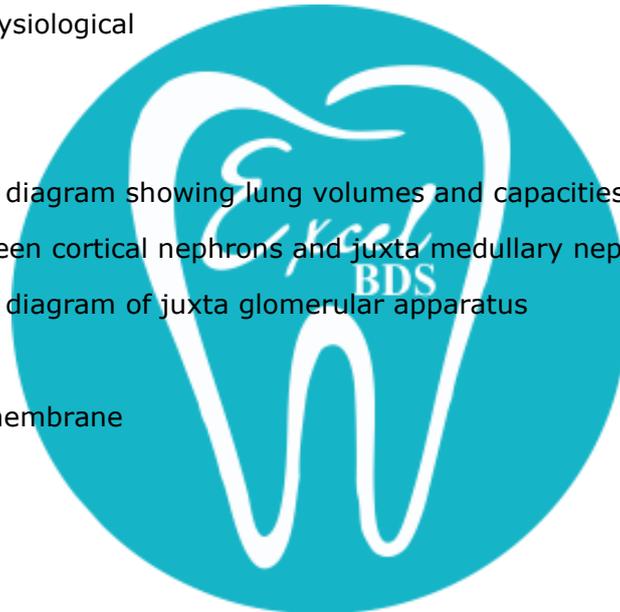
1. Define haemostatic. Describe intrinsic pathway of blood coagulation. Add a note on haemophilia

SHORTS

2. Describe molecular basis of skeletal muscle contraction
 3. Describe oxygen- haemoglobin dissociation curve and factors affecting it
 4. Classify modes of transport across the cell membrane. Describe active transport
- Vital capacity and physiological

VERY SHORTS

5. Draw well labelled diagram showing lung volumes and capacities
6. Differentiate between cortical nephrons and juxta medullary nephrons
7. Draw well labelled diagram of juxta glomerular apparatus
8. Refractory period
9. Functions of cell membrane



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BIOCHEMISTRY

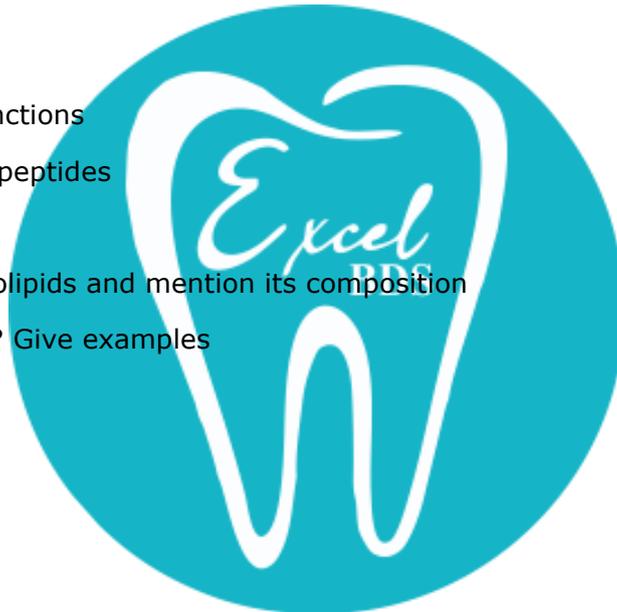
1. Define primary, secondary, tertiary and quaternary structure of proteins. What are the bonds required to maintain structure of protein?

SHORTS

2. Essential fatty acids and mention their importance
3. Describe the structure and biomedical importance of homopolysaccharides
4. Structure and function of DNA

VERY SHORTS

5. RNA Types and functions
6. Biologically active peptides
7. Invert sugar
8. Name two phospholipids and mention its composition
9. What are Epimers? Give examples



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DENTAL ANATOMY AND HISTOLOGY

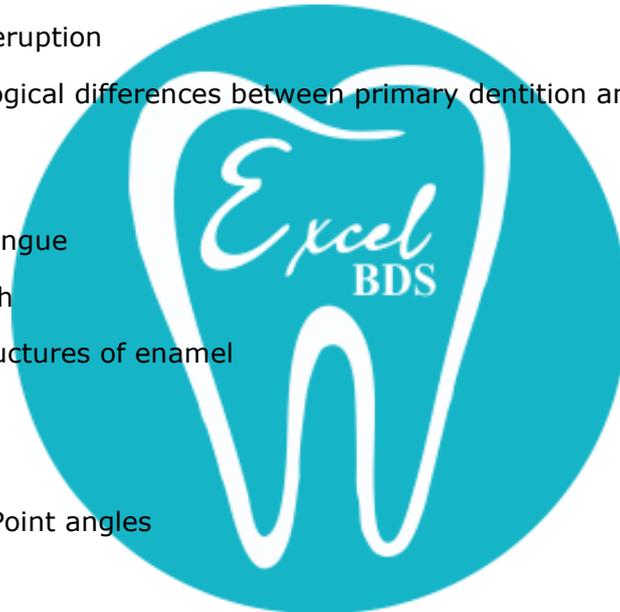
1. Enumerate the stages of tooth development in detail. Add a note on Development of root.
2. Discuss the morphology of permanent maxillary central incisor. List the important differences between permanent maxillary central incisor and maxillary lateral incisor.

SHORTS

3. Tooth numbering system
4. Clinical considerations of enamel
5. Theories of tooth eruption
6. Clinical and histological differences between primary dentition and permanent dentition
7. Amelogenesis
8. Development of tongue
9. Landmarks of teeth
10. Hypocalcified structures of enamel

VERY SHORTS

11. Line angles and Point angles
12. Neural crest cells
13. Fate of dental lamina
14. Neonatal line
15. Reduced enamel epithelium



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GDCRI

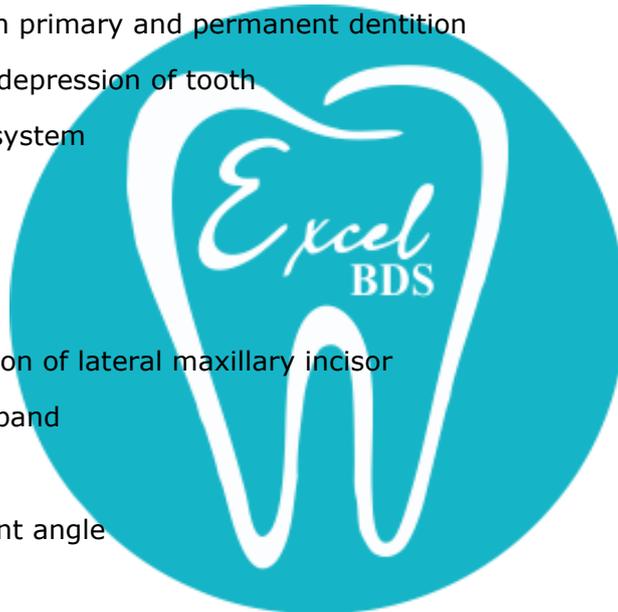
1. Describe maxillary central incisor in following headings
 - (a) Measurements
 - (b) Chronology
 - (c) All the 5 aspects
2. Histophysiology stages of tooth development

SHORTS

1. Difference between primary and permanent dentition
2. All elevations and depression of tooth
3. Tooth numbering system
4. Functions of tooth

VERY SHORTS

1. Clinical consideration of lateral maxillary incisor
2. Primary epithelial band
3. Neural crest cells
4. Line angle and point angle
5. Dental formulae



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ANATOMY

1. Describe the branchial plexus under following headings:

(a) Formation (b) Trunks (c) Divisions (d) Cords (e) Branches (f) Applied anatomy

SHORTS

2. Describe synovial joints with examples
3. Superior Orbital fissure and passing structures
4. Microscopic Structures of lymph nodes
5. Branches of facial nerve in face
6. Ansa cervicalis

VERY SHORTS

7. Dangerous area of face
8. Sesamoid bone
9. Carotid sheath
10. Buccinator muscle
11. Oogenesis



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AL AMEEN DENTAL COLLEGE

PHYSIOLOGY

1. Define blood pressure . Describe factors determining blood pressure

SHORTS

2. Define and classify anaemia. Add a note on pernicious anaemia

3. Counter current exchanger system

4. ESR

VERY SHORTS

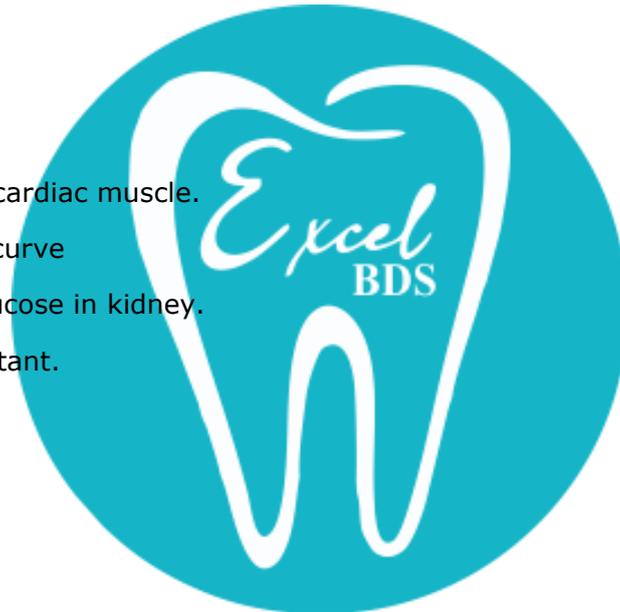
5. Four properties of cardiac muscle.

6. Strength duration curve

7. Reabsorption of glucose in kidney.

8. Functions of surfactant.

9. Thalassaemia



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BIOCHEMISTRY

1. Describe TCA cycle and add a note on its energetics.

SHORTS

2. Classification of proteins with examples.

3. Plasma proteins.

4. Factors affecting enzyme activity. (any three)

VERY SHORTS

5. Anomers

6. Cofactors

7. Isoenzymes

8. Competitive inhibition

9. Essential amino acids



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SB PATIL DENTAL COLLEGE

Classify oral mucus membrane?

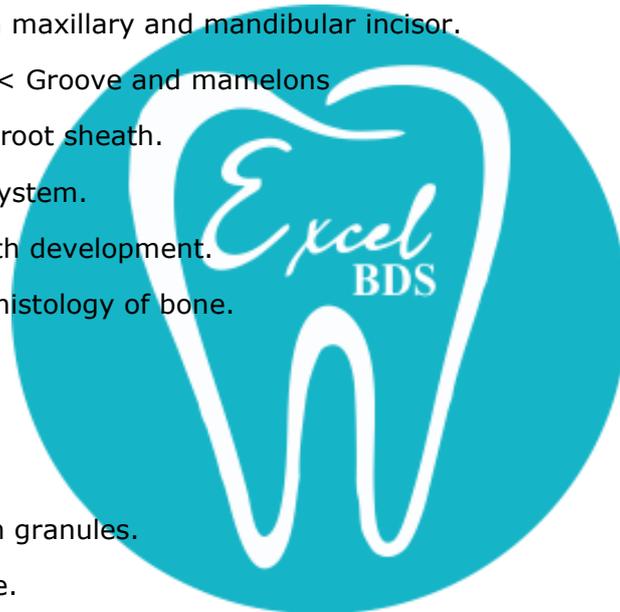
1. Write in detail the microscopic and macroscopic features of gingiva.
2. Describe the chronology and morphology aspects of maxillary lateral incisors?

SHORTS

3. Bell stage of tooth development
4. Non-keratinocytes.
5. Difference between maxillary and mandibular incisor.
6. Define ridge, fossa < Groove and mamelons
7. Hertwigs epithelial root sheath.
8. Tooth numbering system.
9. Bud \cap stage of tooth development.
10. Composition and histology of bone.

VERY SHORTS

11. Gingival coI
12. Membrane protein granules.
13. Cell rest of serrae.
14. Gingival sulcus



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AL AMEEN DENTAL COLLEGE

DENTAL ANATOMY DENTAL HISTOLOGY

- 1.Described details all aspects of permanent maxillary central incisor add a short note on chronology.
- 2.Describe advance bell stage of the tooth development?
- 3.Describe tooth numbering system
- 4.Write the difference between deciduous and permanent teeth.
- 5.Write dental lamina.
- 6.Write cusp and dental formula?
- 7.Write ridge and its types.
- 8.Functions of maxillary sinus.
- 9.Write derivatives of pharyngeal arches?



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GDCRI

DENTAL ANATOMY DENTAL HISTOLOGY

1. Describe maxillary central incisor and write arch traits.
2. Enumerate the morphological stages of tooth development and write in detail about advance bell stage.

SHORTS

1. Ridges
2. Dental lamina
3. Tooth numbering system



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MRIDS

BIOCHEMISTRY

1. Describe the various types of classification of amino acids.

SHORTS

2. Enumerate the glycosaminoglycans and write their functions.

3. Biochemical functions and deficiency disorders of vitamin C.

4. Enumerate the factors affecting enzyme actions.

5. Secondary structure of proteins

VERY SHORTS

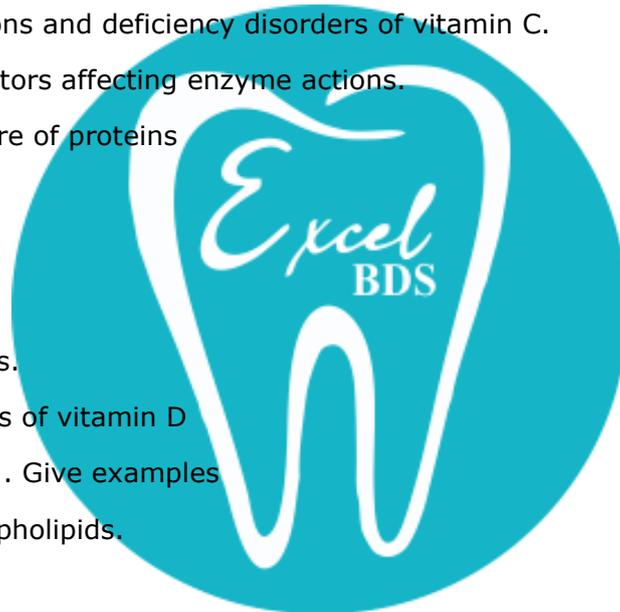
6. Beri Beri

7. Essential fatty acids.

8. Deficiency disorders of vitamin D

9. Define isoenzymes . Give examples

10. Functions of phospholipids.



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MALLA REDDY INSTITUTE OF DENTAL SCIENCES

PHYSIOLOGY

1. Define cardiac output & Mention its normal value? How is it determined? What are the factors affecting cardiac output?

SHORTS

2. Active transport

3. Mechanism of skeletal muscle contraction.

4. Cell mediated immunity

5. What are baroreceptors? How baroreceptors regulate blood pressure

VERY SHORTS

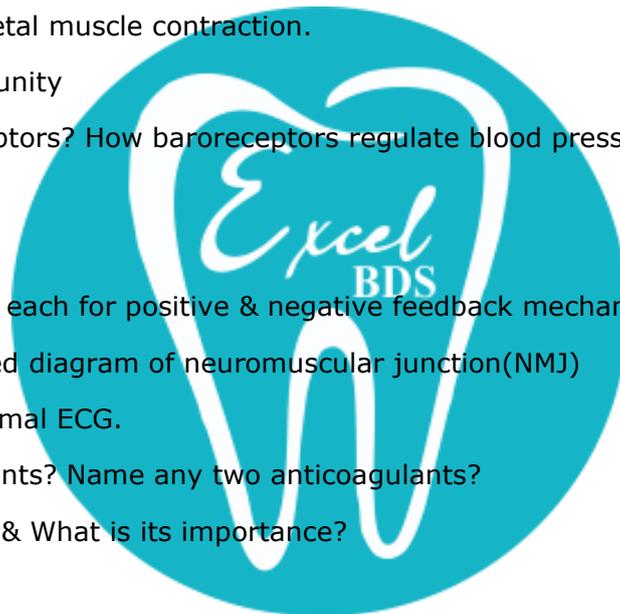
6. Give two examples each for positive & negative feedback mechanisms.

7. Draw a neat labelled diagram of neuromuscular junction (NMJ)

8. Draw and label normal ECG.

9. Define anti coagulants? Name any two anticoagulants?

10. What is Rh factor & What is its importance?



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ANATOMY

LONG

1. Classify Dural venous sinus and describe cavernous sinus in detail . Add a note on surgical importance

2. Describe scalp under the following headings

- (a) Extent and layers
- (b) Blood supply
- (c) Nerve supply
- (d) Applied importance

SHORTS

- 3. Boundaries and contents of sub occipital triangle
- 4. Pretracheal fascia.
- 5. Histology of Endochondral ossification.
- 6. Blood supply of a long bone
- 7. Tentorium cerebelli.

VERY SHORTS

- 8. Jugular foramina.
- 9. Name the muscles of upper lip.
- 10. Ramus of the mandible
- 11. Histology of transitional epithelium
- 12. Stylo mandibular ligament



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ANATOMY

1. Describe scalp under the following headings

- (a) layers
- (b) Blood supply
- (c) Nerve supply
- (d) Applied anatomy

2. Describe the deep cervical fascia

SHORTS

3. Microscopic structure of cardiac muscle.

4. Spermatogenesis

5. Anterior fontanelle

6. Facial artery

7. Buccinator muscle

8. Synovial joint

9. Name the bones of face.

10. Carotid sheath

VERY SHORTS

11. Facial vein

12. Primitive streak

13. Microscopic structure of medium size artery

14. Branches of external carotid artery

15. External jugular vein.

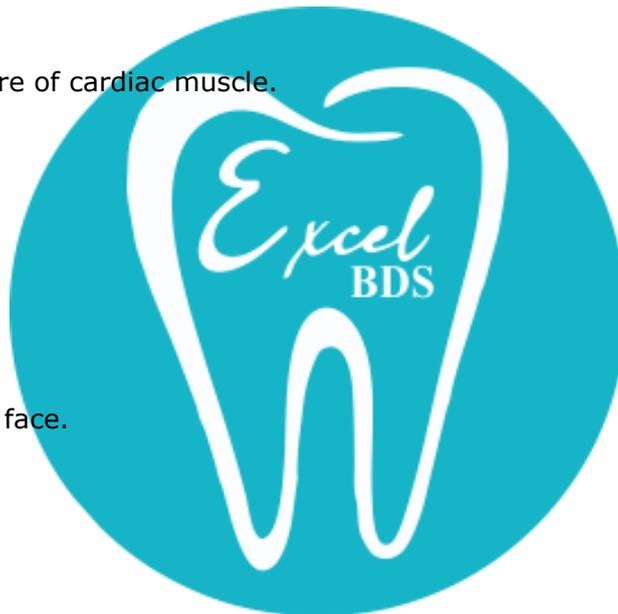
16. Nerve supply of digastric muscle.

17. Arterial supply of thyroid gland.

18. Dangerous area of face

19. Transitional epithelium

20. Floor of carotid triangle.



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BIOCHEMISTRY

LONG

1.Explain in detail factors affecting the velocity of an enzymatic reactions.

SHORTS

- 2.Phospholipids and their functions
- 3.Deficiency manifestations of vitamin A
- 4.Mucopolysaccharides
- 5.Describe the structure of DNA.

VERY SHORTS

- 6.Palagra
- 7.phrenoderma
- 8.Rickets
- 9.Denaturation of protein.
10. Symport



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PHYSIOLOGY

LONG

1. Define cardiac output. Explain the factors determining and measuring cardiac output.

SHORTS

2. Draw a labelled diagram of neuromuscular junction.

3. Anticoagulants.

4. Classify WBC and mention their functions.

5. Regulation of blood pressure

VERY SHORTS

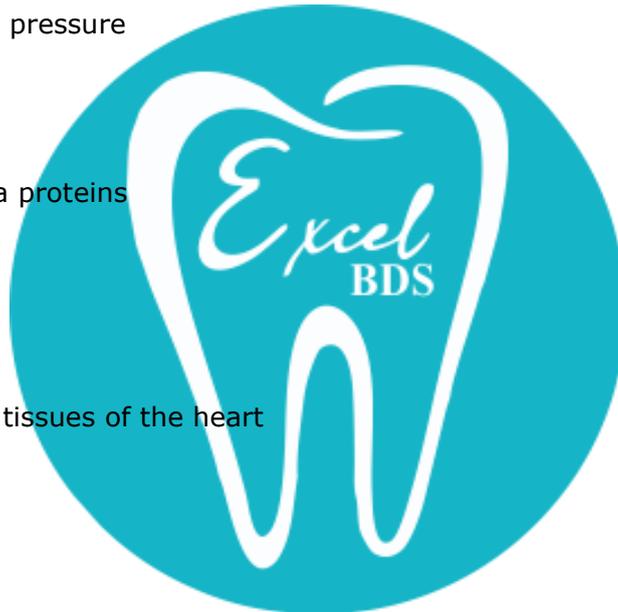
6. Functions of plasma proteins

7. Rh incompatibility

8. Neuroglia

9. Sarcomere

10. Special junctional tissues of the heart



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DENTAL ANATOMY & DENTAL HISTOLOGY

- 1.Enumerate in detail morphological stages of tooth development
- 2.Write in detail about life cycle of ameloblast and amelogenesis.

SHORTS

- 3.Physical and chemical properties of enamel.
- 4.Pharyngeal arch derivatives
- 5.Hypocalcified structures of enamel
- 6.Morphology of maxillary permanent central incisor.
- 7.Transient structures of tooth development
- 8.Development of tongue
- 9.Tooth numbering system.
- 10.Enamel rods structures

VERY SHORTS

- 11.Oblique ridge
- 12.HERS
- 13.Cingulum, mamelons, lobe.
- 14.Dental lamina and Vestibular Lamina
15. Stellate Reticulum.
- 16.Perikymata
- 17.Define cusp
18. Incremental lines & Neonatal lines
19. Neural crest cells
20. Enamel cuticle

