

- ESIC Dental College.
II B.D.S Internal Examination – JUNE-2019

Time: three hours.

[Max. Marks : 35]

DENTAL MATERIALS.

LONG ESSAY

1 X 10 = 10 Marks

* Long Essays:

1. Classify gypsum products. Write in detail about setting reaction and factors affecting setting time of gypsum products. Add a note on hygroscopic and normal setting expansion.

2. Classify dental cements. Write in detail about glass ionomer cement.

* Short Essays:

3. Classification of impression materials.

4. Setting reaction of alginate.

5. Setting reaction of zinc oxide eugenol cement.

6. Manipulation of zinc phosphate cement.

7. Classification of denture base resin.

8. Polymerization cycle.

9. Properties of zinc polycarboxylate.

10. Advantages and disadvantages of zinc oxide eugenol cement.

* Short Answers:

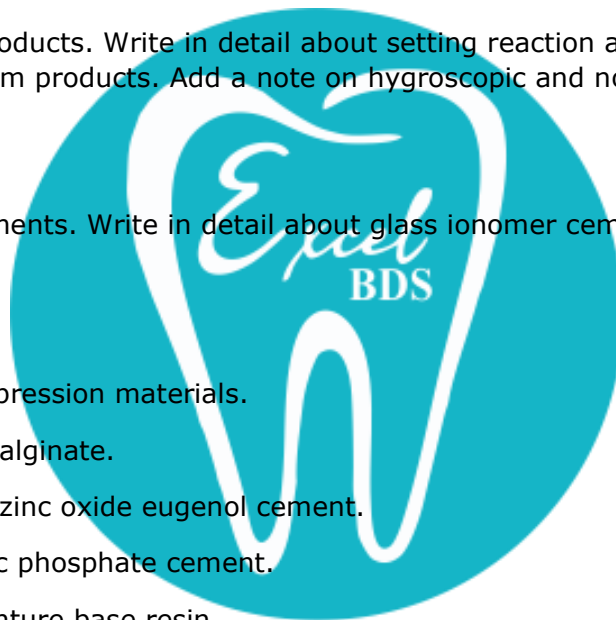
11. Syneresis and imbibition.

12. Proportional limit.

13. Composition of zinc oxide eugenol impression paste.

14. Composition of zinc phosphate cement.

15. Calcium hydroxide



**-KIMS DENTAL COLLEGE.
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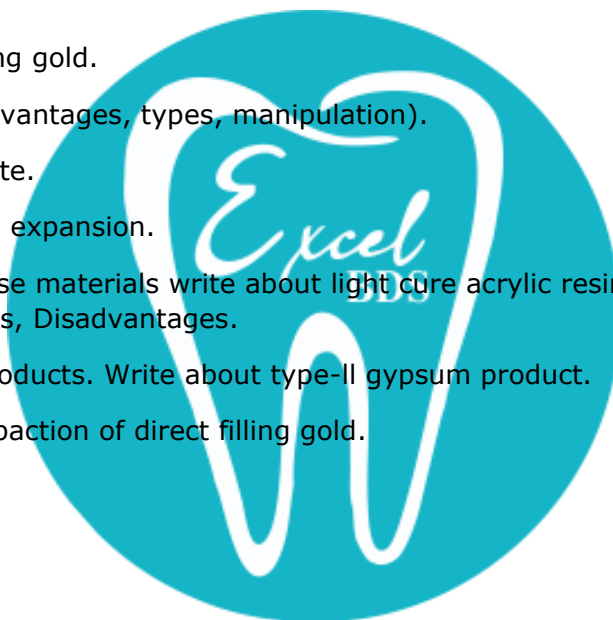
1. Define Impression Materials. Classify Impression Materials Write In Detail About Irreversible Hydrocolloids.
2. Classify Dental Amalgam. Write In Detail About Composition Setting Reaction and Microstructure Of High Copper Amalgam (Admixed Alloy).

* SHORT ESSAY:

3. Forms of direct filling gold.
4. Inlay wax (use/ advantages, types, manipulation).
5. Zoe impression paste.
6. Hygroscopic setting expansion.
7. Classify denture base materials write about light cure acrylic resins and Base Plate Wax, Advantage, Uses, Disadvantages.
9. Classify Gypsum products. Write about type-II gypsum product.
10. Technique of compaction of direct filling gold.

* SHORT ANSWERS:

11. Annealing.
12. Eames technique.
13. Coupling agents.
14. Disinfection, impression materials.
15. Delayed expansion.
- 16 Accelerators and retarders of gypsum products.
17. Water powder ratio of gypsum products.
18. Putty wash technique.
19. Classify and write uses of each type of wax.
20. Salt and pepper technique.



SVS DENTAL COLLEGE.
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DENTAL MATERIALS.

LONG ESSAY

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1. Discuss the importance of biocompatibility of dental material.
2. Define and classify cements, write in detail about zinc phosphate cement.

*** SHORT ESSAY:**

3. Alpha hemihydrate vs beta hemihydrate.
- 4 Stress strain curve.
- 5 Hardness tests.
- 6 Poly vinyl siloxane impression materials.
7. Theories of setting reactions of gypsum.
- 8 Setting reaction of GIC.
9. Condensation of DFG.
10. Liners, varnish, bases.



*** SHORT ANSWERS:**

11. Rheology.
12. Munsell system.
13. Setting expansion of gypsum
14. Modified alginates.
15. Ductility & Malleability.
16. Water settable cements.
17. Electro alloy.
18. Sandwich technique,
19. Composition of Zinc polycarboxylate.
20. Annealing.

AJ DENTAL COLLEGE.
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DENTAL MATERIALS.

*** Long Essays:**

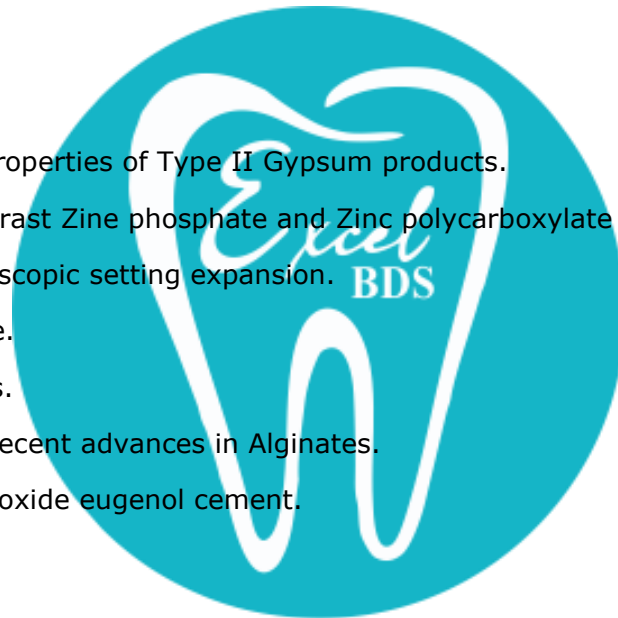
1. Define and classify Impression materials and write in detail about the composition, properties of polyvinyl silicoxanes.
2. Classify Dental Cements and describe the composition, setting reaction and properties of Glass Ionomer cement.

*** Short Essays:**

3. Composition and properties of Type II Gypsum products.
4. Compare and contrast Zinc phosphate and Zinc polycarboxylate cements.
5. Normal and Hygroscopic setting expansion.
6. Stress strain curve.
7. Tests for Hardness.
8. Composition and recent advances in Alginates.
9. Properties of Zinc oxide eugenol cement.
10. Casting defects.

*** Short Answers:**

11. Frozen glass lab technique.
12. Parameters of Colour.
13. Pickling.
14. Sandwich technique.
15. Spherulites.



SDM DENTAL COLLEGE.
II B.D.S Internal Examination – JUNE-2019

Time: three hours.

[Max. Marks : 35]

DENTAL MATERIALS.

*** Long Essays:**

1. Classify Gypsum products. Discuss the composition, manufacturing, manipulation, properties and uses of dental stone.

*** Short Essay:**

2. Discuss about hardness in detail.
3. Discuss about 18-8 stainless steel in details.
4. Discuss about alginate hydrocolloid in detail.
5. Discuss about impression compound in detail.

***Short Notes:**

6. Explain about tarnish and corrosion.
7. Explain about ductility and malleability.
8. Explain about intermetallic compound.
9. Explain about syneresis and imbibition.
10. Explain about flux and antflux



VISHNU DENTAL COLLEGE.
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MICROBIOLOGY.

*** Long Essays:**

1. Define and classify sterilization. Add a note on moist heat of sterilization.

*** Short essay:**

2. Anaerobic culture methods.

3. Innate immunity.

4. Agglutination reactions with examples.

5. Cell wall of bacteria.

*** Short answers:**

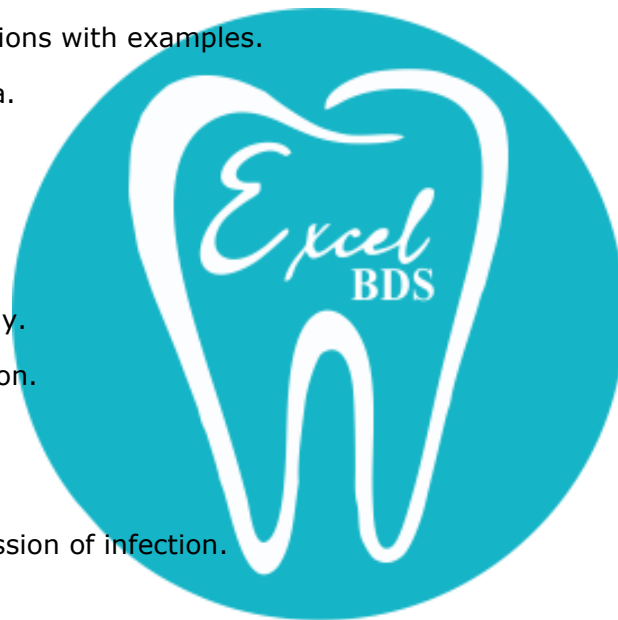
6. Diagram of antibody.

7. Lysogenic conversion.

8. Transport media.

9. IMViC reactions

10. Modes of transmission of infection.



ESIC DENTAL COLLEGE.
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MICROBIOLOGY.

*** LONG ESSAY:**

1. Define Sterilization. Describe in detail moist heat method of sterilization.

*** SHORT ESSAY:**

2. Transduction.

3. Contributions of Louis Pasteur.

4. Anaphylaxis.

*** Short answers:**

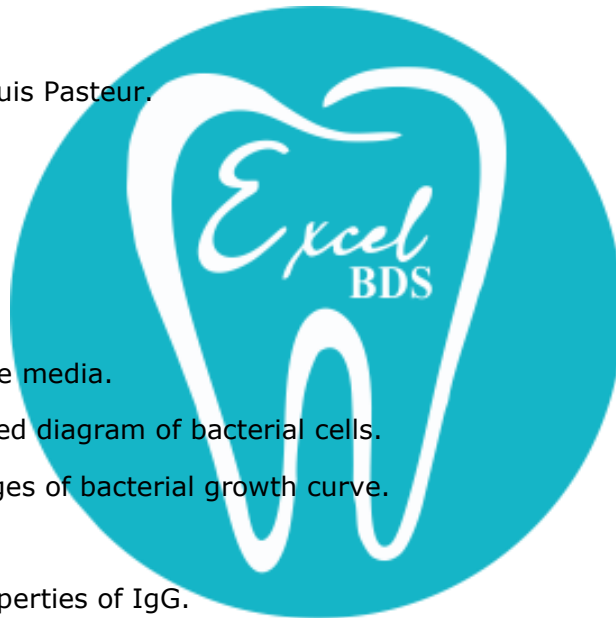
5. Enlist four selective media.

6. Draw a neat labelled diagram of bacterial cells.

7. Enlist the four stages of bacterial growth curve.

8. Fumigation of O. T.

9. Enlist only four properties of IgG.



SVS DENTAL COLLEGE.
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MICROBIOLOGY.

*** LONG ESSAY:**

1. Enumerate the causative agent of sore throat discuss the pathogenesis and complication of streptococcal pharyngitis.

*short notes:

2. Bacterial growth curve.
- 3 Actinomycetes.
4. Bacterial cell wall.
5. Lab diagnosis of diphtheria.

* Short answers:

6. Name four anaerobic bacteria.
7. Name four chemical disinfectants.
8. Coagulase test.
9. Robert Koch.
10. Bacteria causing meningitis.



PMNM DENTAL COLLEGE.
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[Max. Marks : 35]

MICROBIOLOGY.

*** LONG ESSAY:**

1. Define and classify Sterilization. Describe methods of sterilization using moist heat.

*** Short Essays:**

2. Innate Immunity.

3. Bacterial flagella.

4. Virulence factors of Staphylococcus.

*** Short Answers:**

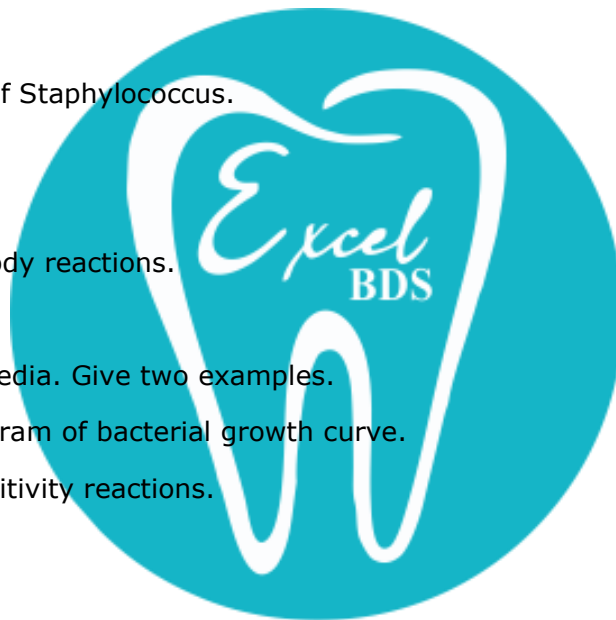
5. List antigen-antibody reactions.

6. IgM.

7. Define enriched media. Give two examples.

8. Draw labelled diagram of bacterial growth curve.

9. Classify hypersensitivity reactions.



KIMS DENTAL COLLEGE.
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MICROBIOLOGY.

*** LONG ESSAY:**

1. Define and classify hypersensitivity reactions. Write in detail about type I hypersensitivity reaction.

*** SHORT ESSAY:**

2. McIntosh and Fildes anaerobic jar.

3. Define Sterilization. Write a short note on Chemical Sterilization.

4. ELISA.

5. What are Immunoglobulins. Write in detail about IgG.

*** SHORT ANSWERS:**

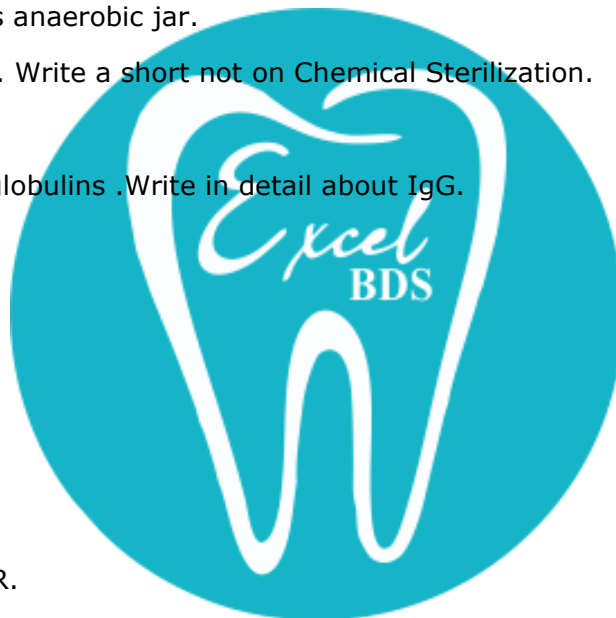
6. Hapten.

7. Enrichment media.

8. Catalase test.

9. Applications of PCR.

10. Name any two autoimmune disorders



**GDC KADDAPA DENTAL COLLEGE.
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MICROBIOLOGY.

*** LONG ESSAY:**

1. Define sterilization. Classify sterilization methods.(9M).
2. Write in detail about moist heat sterilization.

*** SHORT ESSAY:**

2. Mutations.
3. Classify immunoglobulins.
4. Anaerobic culture methods.
5. Type-II hypersensitivity.

*** SHORT ANSWERS:**

6. Differences between active and passive immunity.
7. Exotoxins.
8. Transport media.
9. Koch postulates.
10. Bacterial flagella.



VISHNU DENTAL COLLEGE.
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PHARMACOLOGY.

*** LONG ESSAY:**

1. What is first pass metabolism. Discuss about enzyme induction and enzyme inhibition with examples. (9M)

* SHORT ESSAY:(16M)

2. Classify skeletal muscle relaxants. Discuss about succinylcholine.

3. Factors modifying the drug action.

4. Beta blockers.

5. Newer drug delivery systems.

*SHORT ANSWER:(10M)

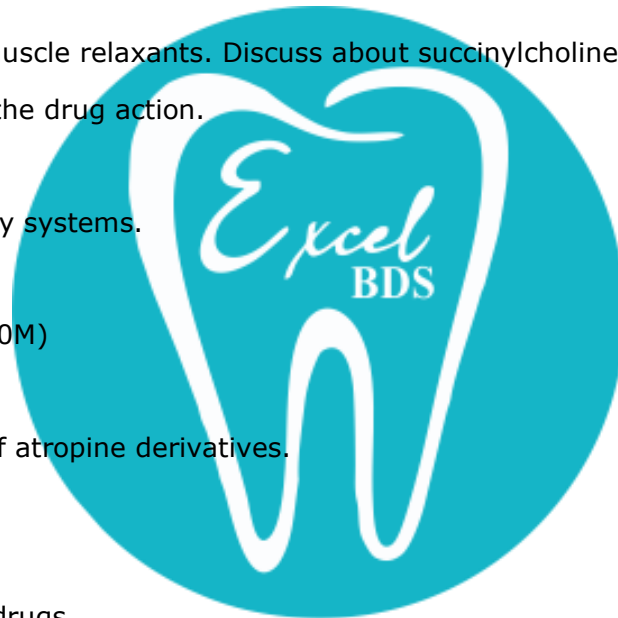
6. Therapeutic uses of atropine derivatives.

7. Therapeutic index.

8. Pharmacovigilance.

9. List out glaucoma drugs.

10. Adrenaline uses.



SDM DENTAL COLLEGE.
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PHARMACOLOGY.

*** LONG ESSAY:**

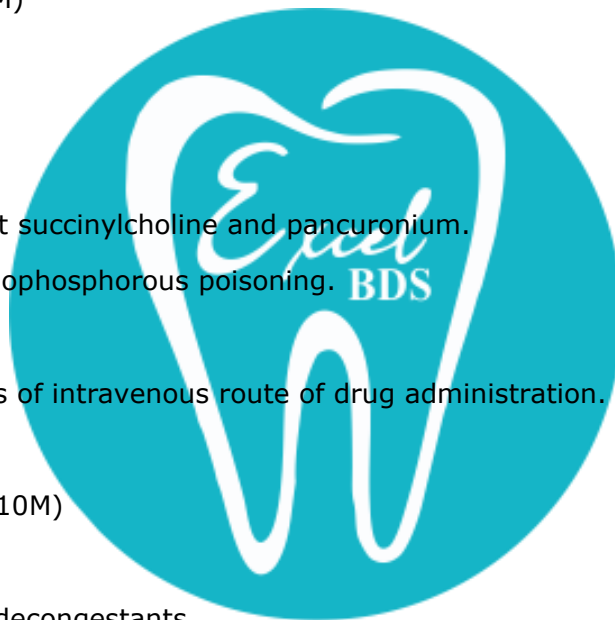
1. Discuss the factors modifying drug action, with suitable examples.
2. Classify beta blockers. Discuss the pharmacological actions, adverse effects & therapeutic uses of propranolol.

*** SHORT ESSAY:(30M)**

3. Lignocaine.
4. Enzyme Induction.
5. Compare & contrast succinylcholine and pancuronium.
6. Treatment of organophosphorous poisoning.
7. Drug antagonism.
8. Merits and demerits of intravenous route of drug administration.

***SHORT ANSWERS:(10M)**

9. Mention two nasal decongestants.
10. Two uses of Prazosin.
11. Name one muscarinic agonist and one antagonist.
12. Define prodrug. Give an example.
13. Rationale of using adrenaline in anaphylactic shock.



AJ DENTAL COLLEGE.
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PHARMACOLOGY.

*** LONG ESSAY:**

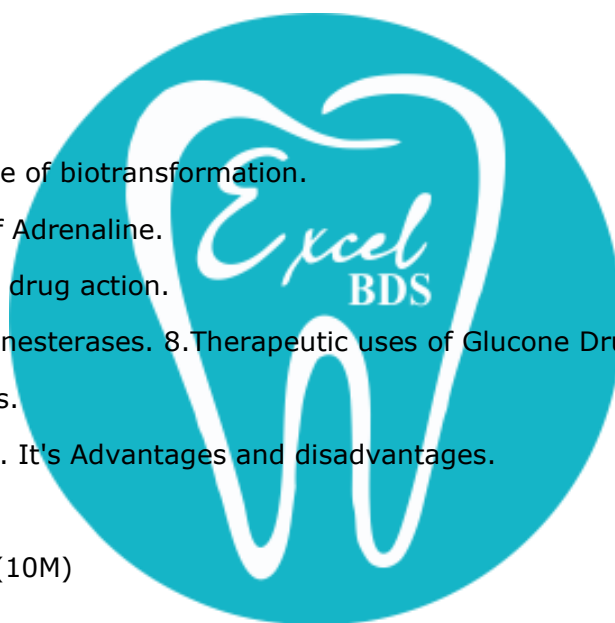
1. Classify Beta blockers. Explain in brief therapeutic uses, adverse effects and Contraindications of Propranolol.
2. Discuss the various factors modifying drug action.

*** SHORT ESSAYS:**

3. d-Tubocurarine.
4. Non-synthetic phase of biotransformation.
5. Therapeutic uses of Adrenaline.
6. Methods to prolong drug action.
7. Reversible anticholinesterases. 8. Therapeutic uses of Glucone Drug antagonism.
9. Atropine substitutes.
10. Intravenous route. It's Advantages and disadvantages.

*** SHORT ANSWERS:(10M)**

11. First dose phenomenon.
12. Placebo.
13. Mention two sources of drugs with one example each.
14. Define teratogenicity. Give two examples.
15. Why Dopamine is preferred in Cardiogenic shock.



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PHARMACOLOGY.

*** LONG ESSAY:**

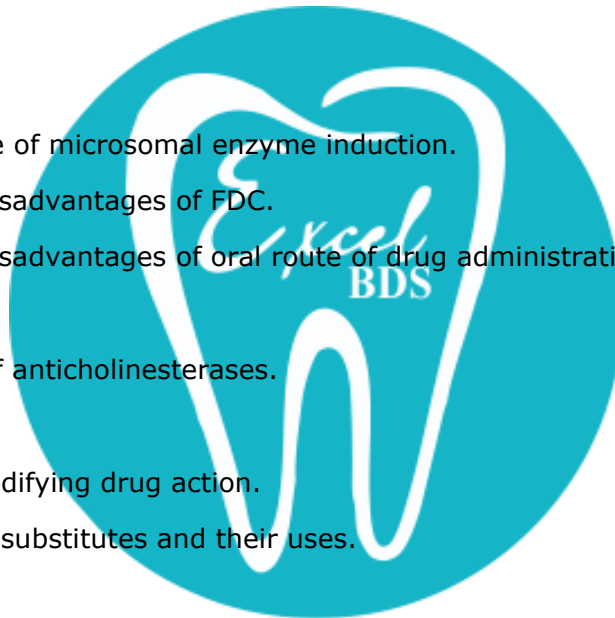
1. Classify anticoagulants. Write the mechanism of action, therapeutic uses and adverse effects of warfarin.
2. Classify Beta blockers drugs. Write the therapeutic uses and adverse effects of propranolol.

*** SHORT ESSAY:**

3. Clinical importance of microsomal enzyme induction.
4. Advantages and disadvantages of FDC.
5. Advantages and disadvantages of oral route of drug administration.
6. Drug antagonism.
7. Therapeutic uses of anticholinesterases.
8. Antitussives.
9. List the factors modifying drug action.
10. List five atropine substitutes and their uses.

*** Short Answers:**

11. Name two prodrugs.
12. Name two inhalational glucocorticoids.
13. Name two styptics.
14. Name two orphan drugs.
15. Two advantages of combining adrenaline with lignocaine.



**· Dr.Sudha & Nageswara Rao Siddhartha Institute of Dental
Science.
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PHARMACOLOGY.

*** LONG ESSAY:**

1.Classify beta blocker drugs. Write pharmacological actions, uses and side effects of Beta blockers. Write advantages of cardio selective Beta Blockers.

*** Short notes:**

2.Atropine substitutes.

3.Enzyme induction & enzyme inhibitors with example.

4.Bioavailability.

5.Drug antagonism.

*** Short answers:**

6.Sublingual route of drug administration. Advantages and disadvantages.

7.Classify Sympathomimetic drugs. Write uses of adrenaline.

8.Classify cholinergic drugs. 9.Write treatment of organophosphorus poisoning.

10.Define therapeutic index and tolerance with examples.

11.Write differences between physostigmine and Neostigmine.



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*** LONG ESSAY:**

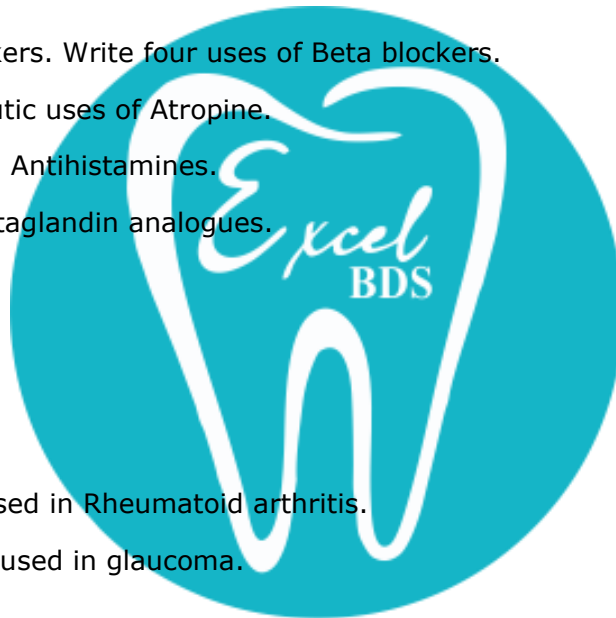
1. Write Various routes of drug administration. Draw neat label diagram of transdermal patch with examples and its advantages.

*Short Notes:

2. Classify Beta blockers. Write four uses of Beta blockers.
3. Write the therapeutic uses of Atropine.
4. Second generation Antihistamines.
5. Write uses of prostaglandin analogues.

* Short answers:

6. Low dose Aspirin.
7. Name four drugs used in Rheumatoid arthritis.
8. Mention one drug used in glaucoma.
9. Oximes.
10. Plasma half life.



**KIMS Institute of Dental Science.
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PHARMACOLOGY.

*** LONG ESSAY:**

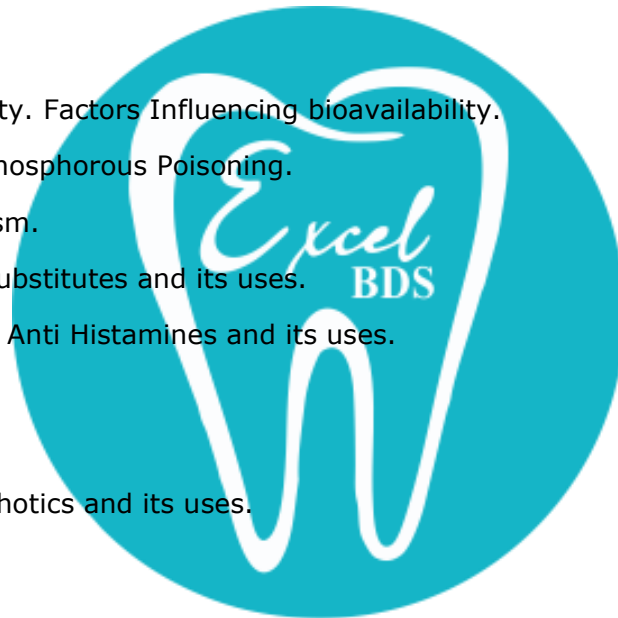
1. Classify Anti epileptics, Write it's mechanism of action ,uses and adverse effects of Phenytoin.
2. Classify Beta Blockers, Write uses, adverse effects and Contraindications of Propranolol.

*** Short Notes:**

3. Define Bioavailability. Factors Influencing bioavailability.
4. Treatment of Organosporous Poisoning.
5. Receptor Antagonism.
6. Mention Atropine substitutes and its uses.
7. Second Generation Anti Histamines and its uses.
8. Ketamine.
9. Lithium carbonate.
10. Atypical anti psychotics and its uses.

*** Short answers:**

11. Tachyphylaxis.
12. Write two advantages and disadvantages of IV route.
13. Central Anti Cholinergic used in parkinsonism.
14. Plasma half-life.
15. Two examples of synergism.
16. Mention four SSRI's.
17. Mention two prostaglandins & uses.
18. Flumazenil.
19. Mention four human teratogenic drugs.
20. Mention two drugs for Glaucoma.



-SHRI BALAJI DENTAL COLLEGE
II B.D.S Internal Examination – JUNE-2019

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PHARMACOLOGY.

*** LONG ESSAY:**

- 1.Enumerate NSAIDS. Write mechanism of action, Uses and adverse effects of Aspirin.
- 2.Mention various routes of drug administration. Write about the advantages and disadvantages of both IV route and oral route.

*** Short notes:**

- 3.Define bioavailability. Write factors affecting bioavailability.
- 4.Treatment of Organophosphorus poisoning.
- 5.Mechanism of action, uses and adverse effects of lignocaine.
- 6.Metronidazole.
- 7.Protease inhibitors.
- 8.Uses and adverse effects of adrenaline.
- 9.Define plasma half-life. What is its clinical importance.
- 10.Chloroquine.

*** Short answers:**

- 11.Tachyphylaxis.
- 12.Cetrimide.
- 13.Define pharmacogenomics. Mention two example.
- 14.Mention two anthelmintic drugs. Give two uses.
- 15.Mention two alpha blockers. Give two uses.
- 16.Rationale of combining adrenaline with lignocaine.
- 17.Mention four drugs used in chloroquine resistant malaria.
- 18.Mention two atropine derivatives, Give two uses.
- 19.What is enzyme induction. Mention two drug that exhibit enzyme induction.
- 20.Mention two macrolide antibiotics. Give two uses.

