

JSS UNIVERSITY, MYSURU

Second Year BDS Examination - June 2017

Subject: Dental Materials

*Note: All questions are compulsory.
Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.*

Time: 3 hours

Max. Marks: 70

I. LONG ESSAYS

2x10=20 Marks

1. Classify and explain the manipulation of high copper silver amalgam. (4+6)
2. Classify dental casting alloys. Explain casting defects. (5+5)

II. SHORT ESSAYS

6x5=30 Marks

3. Write the composition and setting reaction of polyvinyl siloxane. (3+2)
4. Composition and methods of strengthening of ceramics. (2+3)
5. What is polymerization shrinkage? Write the measures to minimize polymerization shrinkage. (2+3)
6. Write the composition and chemistry of setting of zinc polycarboxylate cement. (2+3)
7. Three dimensions of colour and different shade guides. (3+2)
8. Write the composition and ideal requirements of dental waxes. (3+2)

III. SHORT ANSWERS

10x2=20 Marks

9. What is suck back porosity?
10. Write a note on self etch.
11. Significance of frozen slab technique.
12. Define adhesion.
13. Importance of biocompatibility tests.
14. Uses of dentriferices.
15. Uses of calcium hydroxide.
16. What are solid solutions?
17. What is annealing?
18. Define ductility and malleability.

JSS UNIVERSITY, MYSURU**Second Year BDS Examination - June 2017****Subject: General & Dental Pharmacology & Therapeutics***Note: All questions are compulsory.**Your answers should be specific to the questions asked.**Draw neat labeled diagrams wherever necessary.***Time: 3 hours****Max. Marks: 70****I. LONG ESSAYS****2x10=20 Marks**

1. Define and classify dentifrices. Describe the pharmacology of detergents. (3+3+4)
2. Describe the spectrum of action, adverse reactions and uses of amoxicillin. (4+3+3)

II. SHORT ESSAYS**6x5=30 Marks**

3. Adverse reactions and uses of atropine. (3+2)
4. What are transdermal therapeutic systems?
5. Mechanism of action and uses of digoxin. (3+2)
6. Mechanism of action and uses of omeprazole. (3+2)
7. Adverse reactions and uses of morphine. (3+2)
8. Mechanism of action and adverse reactions of heparin. (3+2)

III. SHORT ANSWERS**10x2=20 Marks**

9. Name four fluoroquinolones.
10. Write four uses of conventional anti-histamines.
11. Uses of adrenaline.
12. List two techniques for administration of local anaesthesia.
13. Mechanism of action of desferrioxamine.
14. Enumerate four drugs useful in grand mal epilepsy.
15. Mechanism of ACE inhibitors.
16. Drugs for pernicious anaemia.
17. Four non-endocrine uses of prednisolone.
18. Mechanism of action of acyclovir.

II B.DS (RSE)

June - 2017

QP Code: 11208

Subject: Dental Materials

Part II

LONG ESSAY

2x10=20 Marks

1. Classify dental waxes. Write the classification, composition and manipulation of inlay waxes. (2+2+2+4)
2. What is casting defect? Name the casting defects. Describe suck back porosity. (2+3+5)

SHORT ESSAY

4x5= 20 Marks

3. Write the setting reaction of high copper amalgam.
4. Uses and manipulation of agar impression material.
5. Manipulation of impression compound.
6. Hygroscopic setting expansion.

SHORT ANSWERS

10X2=20 Marks

7. Peritectic alloy.
8. What is co-efficient of thermal expansion?
9. Significance of clearance angle.
10. Uses of calcium hydroxide in dentistry.
11. Materials used in implant manufacture.
12. What is exothermic reaction?
13. Write the composition of silica bonded investments.
14. Pickling solutions.
15. Composition of glass ionomer cement.
16. Uses of Flux.

11 B-DS June - 2017
(RS I)

QP Code: 11207

Subject: General Dental Pharmacology & Therapeutics

Part II

LONG ESSAY

2x10=20 Marks

1. Classify non-steroidal anti inflammatory drugs (NSAIDs). Explain the mechanism of action, adverse effects and uses of aspirin. (2+3+2+3)
2. Classify dentrificates with examples. Add a note on disclosing agents. (5+5)

SHORT ESSAY

4x5=20 Marks

3. Name pre-anaesthetic medications and write their uses. (2+3)
4. Name four first line anti-tubercular drugs. Mention the uses and adverse effects of rifampicin. (1+2+2)
5. Write the therapeutic uses and adverse effects of nitrates. (3+2)
6. Mechanism of action and uses of anti-haemorrhagic agents. (3+2)

SHORT ANSWERS

10x2= 20 Marks

7. What are chelating agents? Write two examples and two uses.
8. Deficiency of vitamin C.
9. What are mast cell stabilizers? Write two examples.
10. What are insulin analogues? Write two examples.
11. Write four adverse effects of corticosteroids.
12. Write the treatment of organo phosphate poisoning.
13. Role of ethyl alcohol in methyl alcohol poisoning.
14. Why adrenaline is combined with lignocaine?
15. Write four uses of beta-blockers.
16. Write two examples for transdermal patch.

QP Code: 11205

Section A
General Pathology

(30 Marks)

LONG ESSAY

1x10=10 Marks

1. Define oedema. Explain its aetiopathogenesis. Add a note on pulmonary edema.

(2+5+3)

SHORT ESSAYS

2x5=10 Marks

2. Explain healing by secondary intention.
3. Describe the peripheral blood and bone marrow findings in chronic myeloid leukemia (CML).

SHORT ANSWERS

5x2=10 Marks

4. Mechanism of metastasis.
5. Pleomorphic adenoma.
6. Congenital syphilis.
7. Metaplasia.
8. Aetiology of giant cell tumor.

QP Code: 11206

Section B
General Microbiology

(30 Marks)

LONG ESSAY

1x10=10 Marks

9. Describe the pathogenesis, laboratory diagnosis and prophylaxis of cholera.

(4+4+2)

SHORT ESSAYS

2x5=10 Marks

10. What is candidiasis? Add a note on oral candidiasis.
11. What is bacterial cell wall? Write its functions.

SHORT ANSWERS

5x2=10 Marks

12. Describe oral lesions of herpes virus.
13. Frequency of administration of polio vaccines.
14. Uses of immuno-fluorescence test.
15. What is enrichment media?
16. Classification of leprosy.

JSS UNIVERSITY, MYSURU

Second Year BDS Examination - June 2017

Subject: General Pathology & Microbiology*Note: All questions are compulsory.**Your answers should be specific to the questions asked.**Draw neat labeled diagrams wherever necessary.***Section A & Section B should be answered in separate answer books****Time: 3 hours****Max. Marks: 70****QP Code: 1205****Section A
General Pathology****(35 Marks)****LONG ESSAY****1x10=10 Marks**

1. Define inflammation. Describe the vascular events in inflammation.

(4+6)**SHORT ESSAYS****3x5=15 Marks**

2. Define apoptosis. Describe the morphological changes seen in apoptosis.
3. Laboratory diagnosis of tumors.
4. Peripheral smear findings of chronic myeloid leukemia (CML).

(2+3)**SHORT ANSWERS****5x2=10 Marks**

5. Enumerate the stages of shock.
6. What is Virchow's triad?
7. Define granuloma.
8. Mention four factors affecting healing.
9. What is packed cell volume?

QP Code: 1206**Section B
Microbiology****(35 Marks)****LONG ESSAY****1x10=10 Marks**

10. Classify mycobacteria. Describe the pathogenesis and laboratory diagnosis of pulmonary tuberculosis.

(3+4+3)**SHORT ESSAYS****3x5=15 Marks**

11. Source and mode of transmission of infection.
12. Management of anaphylactic shock.
13. Life cycle of Plasmodium vivax.

(2+3)**SHORT ANSWERS****5x2=10 Marks**

14. What is intermittent sterilization? Mention its uses.
15. Role of T and B lymphocyte in immune response.
16. Morphological classification of fungi with one example for each.
17. What is Pulse Polio Immunization programme? Write its importance.
18. What are viral inclusion bodies? Write two examples.