

**JSS Academy of Higher Education & Research, Mysuru**

(Deemed to be University)

**Second Year BDS Examination – June 2019****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 direct filling gold. Explain its physical properties, manipulation and advantages. (3+7)
2. Classify denture base resin materials. Enumerate the composition and ideal requirements of these resins. Describe porosities in acrylic resin dentures. (2+4+4)

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

3. Stages of addition polymerization.
4. Generation of bonding agents.
5. Mercury toxicity.
6. Silicone impression materials.
7. NiTi wires.
8. Tests to assess the setting time of gypsum.

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

9. Separating media.
10. Curing cycles.
11. Activators for composites.
12. Shape memory.
13. Tissue conditioner.
14. Classify investments.
15. Curing lights.
16. Contact angle of wetting.
17. Terra alba.
18. Flux and antfluxes.

**Subject: General and Dental Pharmacology and Therapeutics**

**Part II**

**I LONG ESSAYS** **2x10=20 Marks**

1. Classify anticholinergic drugs. Explain the mechanism of action, therapeutic uses and adverse effects of atropine. (2+2+3+3)
2. Enumerate the various routes of drug administration with suitable examples. Mention three advantages and disadvantages of intravenous route of drug administration. (4+3+3)

**II SHORT ESSAYS** **4x5= 20 Marks**

3. What are obtundents? Give two examples and mention two therapeutic uses.
4. Pre-anaesthetic medication.
5. Therapeutic uses and contraindications of adrenaline.
6. Name two oral iron preparations. Mention three advantages of oral preparation over parenteral iron preparations.

**III SHORT ANSWERS** **10X2=20 Marks**

7. Mention two uses and two adverse effects of ACE inhibitors.
8. Name two antiplatelet drugs and two of their therapeutic uses.
9. Name two sulfonyleureas and two of their therapeutic uses.
10. Mention four drugs used in the treatment of leprosy.
11. How do you treat chronic fluoride toxicity?
12. Name two oral anticoagulants and their two therapeutic uses.
13. Name two second generation antihistamines and mention two advantages over first generation antihistamines.
14. Mention two therapeutic uses and adverse effects of proton pump inhibitors.
15. Name two antiseptics and two of their therapeutic uses in dental practice.
16. Name two beta – 2 agonists and explain their mechanism of action in bronchial asthma.

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**Subject: Dental Materials**

**Part II**

**I LONG ESSAYS**

**2x10=20 Marks**

1. Define dental amalgam. Classify silver alloys and describe high copper amalgam. (2+4+4)
2. Classify impression materials. Write the composition, setting reaction and properties of alginate impression material. (4+2+2+2)

**II SHORT ESSAYS**

**4x5= 20 Marks**

3. Expansion in gypsum products.
4. Porosities.
5. Abrasives and polishing agents.
6. Self-etching adhesives.

**III SHORT ANSWERS**

**10X2=20 Marks**

7. Hue, value and chroma.
8. Creep.
9. Cavity liners.
10. Tray compound.
11. Rouge.
12. Sprue.
13. Brittleness.
14. Micro filled composites.
15. Types of zinc oxide eugenol cement.
16. Crazeing.

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UP B.D.S June - 2019  
(RSE)

QP Code: 11205& 11206

**Subject: General Pathology and Microbiology**

**Part II**

*Section A & Section B should be answered in separate answer booklets*

**QP Code: 11205**

**Section A  
Pathology**

**(30 Marks)**

- I LONG ESSAY** **1x10=10 Marks**
1. Define shock. Classify the types of shock. Explain the mechanism of septic shock. Describe the morphology of the organs affected. (2+2+4+4)
- II SHORT ESSAYS** **2x5=10 Marks**
2. Erythrocyte sedimentation rate.  
3. Type I hypersensitivity reaction.
- III SHORT ANSWERS** **5x2=10 Marks**
4. Reed Sternberg cell.  
5. Infective endocarditis.  
6. Thrombocytopenia.  
7. Osteomyelitis.  
8. Granuloma.

**QP Code:11206**

**Section B  
Microbiology**

**(30 Marks)**

- I LONG ESSAY** **1x10=10 Marks**
1. Classify mycobacteria. Explain the pathogenesis and laboratory diagnosis of pulmonary tuberculosis. (4+4+2)
- II SHORT ESSAYS** **2x5=10 Marks**
2. Principle of autoclave and articles sterilized by this method.  
3. Seromarkers of hepatitis B.
- III SHORT ANSWERS** **5x2=10 Marks**
4. Quellung's reaction.  
5. Name two applications of agglutination test.  
6. Classifications of fungi.  
7. Four opportunistic infections in HIV infection.  
8. Draw a labelled diagram of embryonated egg.

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**Second Year BDS Examination – June 2019****Subject: General Pathology and 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 booklets****Time: 3 hours****Max. Marks: 70****QP Code: 1205****Section A  
General Pathology****(35 Marks)****I LONG ESSAY****1x10=10 Marks**

1. Define neoplasia. Explain the differences between benign and malignant tumors.

**(2+8)****II SHORT ESSAYS****3x5=15 Marks**

2. Classification of anemias.
3. Spleen in amyloidosis.
4. Phagocytosis.

**III SHORT ANSWERS****5x2=10 Marks**

5. Differences between exudate and transudate.
6. Clinical features of vitamin A deficiency.
7. Complications of wound healing.
8. Causes of glycosuria.
9. Causes of proteinuria.

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

10. Classify clostridium. Write the pathogenesis and lab diagnosis of tetanus.

**II SHORT ESSAYS****3x5=15 Marks**

11. Bacterial flagella.
12. Anaerobic cultivation methods.
13. Opportunistic fungal infections.

**III SHORT ANSWERS****5x2=10 Marks**

14. Interferons.
15. Selective media.
16. Laboratory diagnosis of gonorrhoea.
17. Types of infections.
18. Pathogenesis of HIV.