

**JSS Academy of Higher Education and Research**  
**Second Year BDS Examination - June 2018**

**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 dental waxes. Describe the composition, properties and uses of inlay wax. (3+7)
2. Classify composite resins. Describe the composition and properties of microfilled light-cured composite resins. (3+7)

**II. SHORT ESSAYS**

**6x5=30 Marks**

3. Root canal sealants.
4. Abrasive and polishing agents.
5. Eames' technique.
6. Elastic memory.
7. Thermal expansion and conductivity.
8. Implant materials.

**III. SHORT ANSWERS**

**10x2=20 Marks**

9. Hardness tests.
10. Glass transition temperature.
11. Green strength.
12. Delayed expansion.
13. Parts of Bur.
14. Suck-back porosity.
15. Stages of packing.
16. Cavity varnish.
17. Cermet cements.
18. Tray adhesive.

**Subject: Dental Materials**

**Part II**

**LONG ESSAY**

**2x10=20 Marks**

1. What is acrylic resin? Describe its properties, uses, setting reaction, and manipulation technique. (1+3+2+2+2)
2. Define base. List the indications of base. Describe polycarboxylate cement as base. (2+3+5)

**SHORT ESSAY**

**4x5= 20 Marks**

3. Parameters of colours.
4. Composition of gutta percha cones.
5. Acid etching.
6. Porosities.

**SHORT ANSWERS**

**10X2=20 Marks**

7. Tarnish.
8. Zinc free amalgam.
9. Retrograde filling material.
10. Imbibition.
11. Compressive strength.
12. Co-efficient of thermal expansion.
13. Composition of tooth paste.
14. Dental bur.
15. Sprue former.
16. Classify gold alloys.

\*\*\*\*\*

II B.D.S (RSE)

June 2018

QP Code: 11207

**Subject: General & Dental Pharmacology & Therapeutics**

**Part II**

**LONG ESSAY**

**2x10=20 Marks**

1. Classify anti-hypertensives with examples. Explain the mechanism of action, uses and adverse effects of angiotensin converting enzyme (ACE) inhibitors. (3+2+2+3)
2. Define oxidizing agents. Write examples, mechanism of action and uses of the same. Add a note on styptics. (1+2+2+2+3)

**SHORT ESSAY**

**4x5= 20 Marks**

3. Uses of atropine and its substitutes.
4. Group, mechanism of action, adverse effects and uses of morphine. (1+1+1+2)
5. Compare and contrast d-tubocurarine and succinylcholine.
6. Mechanism of action, uses and adverse effects of pantoprazole. (2+2+1)

**SHORT ANSWERS**

**10X2=20 Marks**

7. Treatment of digoxin toxicity.
8. Uses and two adverse effects of glucocorticoids.
9. Advantages of intravenous route of drug administration.
10. Teratogenicity.
11. Tachyphylaxis.
12. First dose phenomenon.
13. Four drugs used for prophylaxis of migraine.
14. Indications for parenteral iron preparations.
15. Mention antidotes for the following :
  - a) Paracetamol poisoning
  - b) Morphine poisoning
  - c) Diazepam poisoning
  - d) Iron poisoning.
16. Name two anti-human immunodeficiency virus (HIV) drugs.

\*\*\*\*\*

U B. DS (RS I) June - 2018.

QP Code: 11205 & 11206

**Subject: General Pathology & Microbiology**

**Part II**

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

**Section A  
Pathology**

QP Code: 11205

(30 Marks)

**LONG ESSAY**

1x10=10 Marks

1. Define necrosis. Describe the types of necrosis citing suitable examples with special emphasis on caseous necrosis. (2+8)

**SHORT ESSAYS**

2x5=10 Marks

2. Describe the peripheral blood and bone marrow findings in chronic lymphatic leukemia (CLL).  
3. Explain role of arachidonic acid metabolites in inflammation.

**SHORT ANSWERS**

5x2=10 Marks

4. Tuberculoid leprosy.  
5. Ewing's sarcoma.  
6. Differences between benign and malignant tumors.  
7. Chronic venous congestion (CVC) of liver.  
8. Sago spleen.

**Section B  
Microbiology**

QP Code: 11206

(30 Marks)

**LONG ESSAY**

1x10=10 Marks

1. Describe the oral lesions caused by *Treponema pallidum*. Describe the laboratory diagnosis of syphilis. (4+6)

**SHORT ESSAYS**

2x5=10 Marks

2. Conjugation.  
3. Delayed hypersensitivity.

**SHORT ANSWERS**

5x2=10 Marks

4. Rabies vaccine.  
5. Bacteria associated with dental caries.  
6. Immunoglobulin G (IgG).  
7. Measles - mumps - rubella (MMR) vaccine.  
8. Actinomycosis.

1/6/ \*\*\*\*\*