

**JSS UNIVERSITY, MYSURU**  
**Second Year BDS Examination – December 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 neoplasia. Explain the difference between benign and malignant tumours. (3+7)

**SHORT ESSAYS**

**3x5=15 Marks**

2. Treatment modalities of pulmonary embolism.  
3. Phagocytosis process.  
4. Idiopathic thrombocytopenic purpura (ITP).

**SHORT ANSWERS**

**5x2=10 Marks**

5. Causes for neutrophilia.  
6. Types of gangrene.  
7. Lesions in vitamin C deficiency.  
8. Rotheras test.  
9. Fate of acute inflammation.

**QP Code: 1206**

**Section B**  
**Microbiology**

**(35 Marks)**

**LONG ESSAY**

**1x10=10 Marks**

10. Classify mycobacteria. Describe the laboratory diagnosis of pulmonary tuberculosis. (4+6)

**SHORT ESSAYS**

**3x5=15 Marks**

11. What is enriched culture media? Write its uses.  
12. Write the definition and types of acquired immunity.  
13. Write the morphology of Entamoeba histolytica.

**SHORT ANSWERS**

**5x2=10 Marks**

14. Louis Pasteur.  
15. Name four different routes of infection.  
16. VDRL test.  
17. Name four viral vaccines.  
18. Laboratory diagnosis of HIV infection.

**JSS UNIVERSITY, MYSURU****Second Year BDS Examination - December 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. Define tarnish and corrosion. Explain with dental examples, galvanic corrosion, stress corrosion and concentration cell corrosion. Explain with illustrations how to minimize corrosion. (4+3+3)
2. Classify dental cements. Enumerate the composition, setting reaction and properties of glass ionomer cement. (3+3+2+2)

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

3. Classification of dental casting alloys.
4. Write the definition and uses of soldering.
5. Explain resin veneer technique.
6. Properties of alginate.
7. Composition and uses of high copper alloy.
8. Casting ring liners and their function.

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

9. Define karat and fineness.
10. Advantages of modified zinc oxide eugenol cement.
11. Uses of sticky waxes.
12. Disadvantages of impression plaster.
13. Uses of 18/8 stainless steel.
14. Define hue and chroma.
15. Uses of sandwich technique
16. Uses of cavity varnish.
17. Define osseointegration.
18. Advantages of non-eugenol impression paste.

**JSS UNIVERSITY, MYSURU****Second Year BDS Examination - December 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 dental caries. Enumerate drugs used in the management of dental caries. Write the pharmacology of fluorides. (3+3+4)
2. Classify  $\beta$  blockers. Write the pharmacological actions, adverse reactions and uses of propranolol. (3+2+2+3)

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

3. Clinical implications of protein binding.
4. Mechanism of action and uses of acyclovir.
5. Rationale behind the composition of oral rehydration solution.
6. Diagnosis and treatment of organophosphate poisoning.
7. Mechanism of action and uses radioactive iodine.
8. Adverse effects and uses of gentamicin.

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

9. Use of anticholinergics as preanaesthetic medication.
10. Name four diuretics.
11. Write four adverse effects of prednisolone.
12. Complications of spinal anaesthesia.
13. Adverse effects of phenytoin sodium.
14. Name four groups of drugs for congestive cardiac failure.
15. Explain the use of adrenaline in anaphylaxis.
16. Mechanism of action of nifedipine.
17. Indications for parenteral administration of iron.
18. Uses of methotrexate.

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QP Code: 11208

**Subject: Dental Materials**

**Part II**

**LONG ESSAY**

**2x10=20 Marks**

1. Write the classification, properties, indications and disadvantages of dental composite resins. (3+3+2+2)
2. What is an impression material? Describe alginate as impression material. (2+8)

**SHORT ESSAY**

**4x5= 20 Marks**

3. What is eutectic alloy? Mention its significance.
4. Setting reaction of low copper amalgam alloy.
5. Causes and prevention of corrosion.
6. Manipulation of glass ionomer cement.

**SHORT ANSWERS**

**10X2=20 Marks**

7. What is rake angle?
8. Uses of gold foil.
9. Define abrasion.
10. Significance of shear strength.
11. Uses of base.
12. What is syneresis?
13. Define yield strength.
14. Uses of die stone.
15. Advantages of titanium.
16. Toughness.

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U BIDS DEC-2017

(RS I)

QP Code: 11207

**Subject: General Dental Pharmacology & Therapeutics**

**Part II**

**LONG ESSAY**

**2x10=20 Marks**

1. Define and classify antiseptics and disinfectants. Write the mechanism of action and uses of oxidizing agents. Add a note on obtundents. (1+2+2+3+2)
2. Classify anticholinesterases. Write the uses and adverse effects of anticholinesterases. Compare and contrast neostigmine and physostigmine. (2+2+2+4)

**SHORT ESSAY**

**4x5=20 Marks**

3. Compare and contrast halothane and ether.
4. Four examples and uses proton pump inhibitors. (2+3)
5. Mechanism of action and uses of phenytoin. (2+3)
6. Name four pre-anaesthetic medications with their specific purpose. (2+3)

**SHORT ANSWERS**

**10x2= 20 Marks**

7. Indications of oral rehydration solution (ORS).
8. Treatment of anaphylactic shock.
9. Mucolytics.
10. Four uses of metronidazole.
11. Name two antipsychotics and two selective serotonin reuptake inhibitors.
12. Tramadol.
13. Treatment of paracetamol poisoning.
14. Two examples and two uses of non-sedative antihistaminics.
15. Name two beta blockers and their uses.
16. Bleaching agents.

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