

JSS Academy of Higher Education & Research, Mysuru

(Deemed to be University)

Second Year BDS Examination – December 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. (2+8)
2. Classify denture base resin materials. Enumerate the composition and ideal requirements of these resins. Describe porosities in acrylic resin dentures. (3+3+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: Dental Materials

Part II

I LONG ESSAYS

2x10=20 Marks

1. Classify denture base resins. Describe their properties, manipulation, advantages and disadvantages. (2+8)
2. Write the composition, types and uses of composite resins. Add a note on posterior composites. (8+2)

II SHORT ESSAYS

4x5= 20 Marks

3. Hardness tests.
4. Denture reliners.
5. Modified glass ionomer cements.
6. High copper amalgam.

III SHORT ANSWERS

10X2=20 Marks

7. Inlay waxes.
8. Stress and strain.
9. Tray adhesives.
10. Galvanism.
11. Separating media.
12. Eames technique.
13. Die spacer.
14. Flux and anti-flux.
15. Chroma.
16. Cavity varnish.

II B.P.S (RSE)

DEC-2019

QP Code: 11207

Subject: General and Dental Pharmacology and Therapeutics

Part II

I LONG ESSAYS

2x10=20 Marks

1. Classify non-steroidal anti-inflammatory drugs. Describe the mechanism of action, therapeutic uses and adverse effects of aspirin. (2+3+2+3)
2. Explain the various routes of drug administration with suitable examples. Mention the advantages and disadvantages of oral route. (7+3)

II SHORT ESSAYS

4x5= 20 Marks

3. Enumerate calcium channel blockers and write their therapeutic uses.
4. Antimicrobial prophylaxis in dentistry.
5. Therapeutic uses and adverse effects of tramadol.
6. What are abrasive agents? Give examples and therapeutic uses.

III SHORT ANSWERS

10X2=20 Marks

7. Two indications and two contraindications of beta blockers.
8. Two merits and two demerits of parenteral route of drug administration.
9. Two therapeutic uses and two adverse effects of ACE inhibitors.
10. Rationale for giving adrenaline along with local anesthetics.
11. Four adverse effects of glucocorticoids.
12. Two aminoglycosides and two of their adverse effects.
13. Four first line anti-tubercular drugs.
14. Two proton pump inhibitors and their therapeutic uses.
15. Two antiseptics and two disinfectants used in dental practice.
16. Four adverse effects of phenytoin.

Subject: General Pathology and Microbiology

Part II

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

QP Code: 11205

(30 Marks)

**Section A
Pathology**

- I LONG ESSAY** **1x10=10 Marks**
1. Define healing. Enumerate and describe the types of healing. Add a note on factors influencing the healing process. (2+5+3)
- II SHORT ESSAYS** **2x5=10 Marks**
2. Effects of tobacco smoking.
3. Pathogenesis of type 1 diabetes mellitus.
- III SHORT ANSWERS** **5x2=10 Marks**
4. Leukoplakia.
5. Keloid.
6. Gumma.
7. Fate of thrombus.
8. Target cell.

QP Code:11206

(30 Marks)

**Section B
Microbiology**

- I LONG ESSAY** **1x10=10 Marks**
9. Enumerate the causes of white pseudomembranes in the oral cavity. Describe the pathogenesis and laboratory diagnosis of diphtheria. Add a note on its prophylaxis. (2+6+2)
- II SHORT ESSAYS** **2x5=10 Marks**
10. Enumerate the organs of immune system. Explain the role of spleen in immunology.
11. Enumerate the methods of cultivation of viruses. Describe tissue culture.
- III SHORT ANSWERS** **5x2=10 Marks**
12. Name four culture techniques in bacteriology.
13. Herpes simplex virus.
14. Name four antigen antibody reactions.
15. Name the agents causing malaria.
16. Reynalud breud phenomenon.

JSS Academy of Higher Education & Research, Mysuru

(Deemed to be University)

Second Year BDS Examination – December 2019**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. Describe the pharmacology of antiplaque and anti-gingivitis agents.
2. Define analgesia. Enumerate opioid analgesics. Describe the mechanism of action and therapeutic uses of morphine. Add a note on the role of opioids in dental pain. (2+2+4+2)

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

3. Propofol.
4. Fixed dose combination.
5. Therapeutic uses of atropine.
6. Domperidone.
7. Warfarin.
8. Newer macrolides.

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

9. What are the drugs used in the treatment of lepra reaction?
10. What is DOTS? What are the drugs given under this programme?
11. What is dantrolene sodium? Where is it used?
12. Name two drugs that produce nephrotoxicity.
13. What is the mechanism of action of radioactive iodine?
14. Uses of methotrexate.
15. Justify the use of adrenaline with lignocaine.
16. Mention the rationale in the use of spironolactone in congestive cardiac failure (CCF).
17. Mention two alpha glucosidase inhibitors and their indications.
18. What is the rationale in combining aluminium and magnesium salts in antacids?