

JSS Academy of Higher Education and Research

Second Year BDS Examination - December 2018

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 books****Time: 3 hours****Max. Marks: 70****QP Code: 1205****Section A
General Pathology****(35 Marks)****I LONG ESSAY****1x10=10 Marks**

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

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

2. Fatty liver.
3. Metaplasia.
4. Peripheral smear and bone marrow findings in megaloblastic anemia.

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

5. Causes of eosinophilia.
6. Causes of proteinuria.
7. Nutmeg liver.
8. Define erythrocyte sedimentation rate (ESR).
9. Ameloblastoma.

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

10. Name gram positive cocci causing infections. Describe the laboratory diagnosis of dental abscess.

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

11. Autoclave.
12. Type IV hypersensitivity.
13. Candidiasis.

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

14. Flagella.
15. Immunoglobulin M (IgM).
16. Gas gangrene.
17. Hepatitis B virus.
18. Define sterilization and disinfection.

Subject: Dental Materials**Part II****I LONG ESSAY****2x10=20 Marks**

1. Classify dental cements. Write the composition, setting reaction, types and uses of glass ionomer cement. (2+2+2+2+2)
2. Classify investment materials. Write the composition, setting reaction and uses of gypsum bonded investment. (3+2+2+3)

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

3. Silicone impression material.
4. Tissue conditioners.
5. Tarnish and corrosion.
6. Composition, uses and classification of ceramics.

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

7. Linear coefficient of thermal expansion.
8. Malleability and ductility.
9. Sandwich technique.
10. Mat gold.
11. Cermet.
12. Pickling.
13. Aluminium oxide.
14. Reservoir.
15. Delayed expansion.
16. Calcium hydroxide.

Subject: General & Dental Pharmacology & Therapeutics

Part II

I LONG ESSAY

2x10=20 Marks

1. Classify sympathomimetics based on their therapeutic uses with suitable examples. Enumerate indications and contraindications of adrenaline. Explain the rationale for adding adrenaline to lignocaine.
2. Classify antihypertensive drugs. Describe the mechanism of action, therapeutic uses and adverse effects of ACE-inhibitors.

II SHORT ESSAY

4x5= 20 Marks

3. Pharmacotherapy of anaphylactic shock.
4. Describe the mechanism of action, therapeutic uses and adverse effects of penicillin.
5. Name two anti caries agents and explain their mechanism of action.
6. Name four first line anti tubercular drugs. Mention one adverse effect of each drug.

III SHORT ANSWERS

10X2=20 Marks

7. Enumerate four clinical uses of diazepam.
8. Enumerate the adverse effects of furosemide.
9. Name four drugs used in acid peptic diseases.
10. Therapeutic uses of local anesthetics.
11. Name two therapeutic uses and two adverse effects of insulin.
12. Name two inhalational glucocorticoids and mention two adverse effects.
13. Mention two therapeutic applications of antiseptics in dental practice.
14. Name two therapeutic uses and adverse effects of chloroquine.
15. Mention four drugs given through transdermal route.
16. Advantages of low molecular weight heparin.

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B. DS DEC-2018

QP Code: 11205 & 11206

Subject: General Pathology & Microbiology

Part II

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

QP Code: 11205

**Section A
Pathology**

(30 Marks)

I LONG ESSAY **1x10=10 Marks**

1. Define neoplasia. Enumerate the differences between benign and malignant tumors. Explain the pathways of metastasis. (2+4+4)

II SHORT ESSAYS **2x5=10 Marks**

2. Opportunistic infections in AIDS.
3. Aneurysmal bone cyst.

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

4. Megaloblast.
5. Factor VIII.
6. Ketone bodies.
7. Phagolysosome.
8. Atherosclerotic plaque.

QP Code: 11206

**Section B
Microbiology**

(30 Marks)

I LONG ESSAY **1x10=10 Marks**

1. Describe the morphology, pathogenesis, laboratory diagnosis and prophylaxis of corynebacterium diphtheria.

II SHORT ESSAYS **2x5=10 Marks**

2. Malaria.
3. Moist heat sterilization.

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

4. Structure of hepatitis B virus.
5. MMR vaccine.
6. Mantoux test.
7. Passive immunity.
8. Louis Pasteur.
