SECOND YEAR B.D.S. DEGREE EXAM
(Common to Second Year Paper II - Modified Regulation III Candidates)

PAPER I – GENERAL PATHOLOGY AND MICROBIOLOGY

Q.P Code: 544206

Time: 180 Minutes                                    Maximum: 70 Marks

Draw Suitable diagrams wherever necessary
Answer section A and B in Separate Answer Books

SECTION – A
(GENERAL PATHOLOGY)

I. Elaborate on: (1 x 10 = 10)

1. Define Inflammation. Discuss the chemical mediators of Inflammation.

II. Write Notes on: (5 x 5 = 25)

1. Systemic and oral manifestations of AIDS.
2. Apoptosis.
3. Caisson’s Disease.
4. Grading and staging of tumour.
5. Idiopathic Thrombocytopenic Purpura (ITP).

SECTION – B
(MICROBIOLOGY)

I. Elaborate on: (1 x 10 = 10)

1. Define sterilisation. Write in detail about the physical methods of sterilisation.

II. Write Notes on: (5 x 5 = 25)

1. Taeniasis.
2. Gene transfer methods.
3. Laboratory diagnosis of Treponema pallidum.
4. Prophylaxis of Rabies.
5. Dimorphic fungi.

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SECTION – A
(GENERAL PATHOLOGY)

I. Elaborate on:                                     (1 x 10 = 10)

1. Define Neoplasia. Discuss the routes of spread of malignant tumours.

II. Write Notes on:                                 (5 x 5 = 25)

1. Dry Gangrene.
2. Type I Hypersensitivity.
3. Blood and Bone marrow picture of Chronic Myeloid Leukaemia.
5. Types of Infarcts.

SECTION – B
(MICROBIOLOGY)

I. Elaborate on:                                     (1 x 10 = 10)

1. Write the morphology, culture, antigenic structure, pathogenesis and laboratory diagnosis of Salmonella typhi.

II. Write Notes on:                                 (5 x 5 = 25)

1. Autoclave.
2. Acquired immunity.
3. Gas gangrene.
4. Lab diagnosis of Hepatitis B infection.
5. Candidiasis.

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SECTION – A
(GENERAL PATHOLOGY)

I. Elaborate on:   (1 x 10 = 10)

1. Define shock. What are the types of shock? Discuss the pathogenesis of septic shock.

II. Write Notes on:    (5 x 5 = 25)

1. Squamous cell Carcinoma.
2. Primary complex.
3. Define and classify different types of Leukemia.
5. Dystrophic calcification.

SECTION – B
(MICROBIOLOGY)

I. Elaborate on:   (1 x 10 = 10)

1. Describe the pathogenesis and laboratory diagnosis of syphilis.

II. Write Notes on:    (5 x 5 = 25)

1. Transport media.
2. Type I hypersensitivity reaction.
3. Cultivation of viruses.
5. Roundworm infestation.

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Time: 180 Minutes                                    Maximum: 70 Marks

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SECTION – A
(GENERAL PATHOLOGY)

I. Elaborate on:                                          (1 x 10 = 10)

1. Define Inflammation. Discuss the cellular events of acute inflammation.

II. Write Notes on:                                   (5 x 5 = 25)

1. Fatty change of Liver.
2. Fate of Thrombus.
3. Congenital Syphilis.
4. DIC.
5. Blood and Bone marrow picture of AML.

SECTION – B
(MICROBIOLOGY)

I. Elaborate on:                                          (1 x 10 = 10)


II. Write Notes on:                                   (5 x 5 = 25)

1. Transport Media.
3. Widal Test.
4. Microfilaria.
5. Oral microbial Flora.
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Time: 180 Minutes                                    Maximum: 70 Marks

Draw Suitable diagrams wherever necessary
Answer section A and B in Separate Answer Books

SECTION – A
(GENERAL PATHOLOGY)

I. Elaborate on:                                         (1 x 10 = 10)

1. Define Shock. Write the classification of shock. Discuss the etiopathogenesis
   and complication of septic shock.

II. Write Notes on:                                        (3 x 5 = 15)

1. Differences between Benign and Malignant tumor.
2. Role of complements in Inflammation.
3. Types and etiological aspects of Gangrene.

III. Short answers:                                       (5 x 2 = 10)

1. Give two examples for Physiological and Pathological giant cells.
2. Scurvy.
3. Barr body.
4. Virchows Triad.
5. Pernicious Anemia.

SECTION – B
(MICROBIOLOGY)

I. Elaborate on:                                         (1 x 10 = 10)

1. Describe the bacterial cell in brief with neat diagram.

II. Write Notes on:                                      (3 x 5 = 15)

2. Opportunistic fungal infections.
3. Prophylaxis of Clostridium Tetani.

III. Short answers:                                      (5 x 2 = 10)

1. Immunoglobulins.
2. What is a Dane particle and who are Hepatitis B Carriers?
3. What is excystation and encystation in life cycle of Entamoeba histolytica?
4. Write uses of Dark field and phase contrast microscopes.
5. Enriched Media.

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Q.P Code: 544206

Time: 180 Minutes Maximum: 70 Marks

Draw Suitable diagrams wherever necessary
Answer section A and B in Separate Answer Books

SECTION – A
(GENERAL PATHOLOGY)

I. Elaborate on: (1 x 10 = 10)
   1. Define Neoplasia. Discuss Chemical Carcinogenesis.

II. Write Notes on: (3 x 5 = 15)
   1. Define and discuss the process of Metastasis.
   2. Granuloma – Types and Mechanism of formation.

III. Short answers: (5 x 2 = 10)
   1. Opportunistic infections.
   2. Trisomy 21.
   3. Differences between transudate and exudate.
   4. Give two examples for Physiological and Pathological atrophy.
   5. Leukemoid reaction.

SECTION – B
(MICROBIOLOGY)

I. Elaborate on: (1 x 10 = 10)
   1. Write the morphology, cultural characteristics, pathogenesis and laboratory
diagnosis of Mycobacterium Tubercle Bacilli.

II. Write Notes on: (3 x 5 = 15)
   1. Anaerobic culture methods.
   2. Asexual cycle (Schizogony) of Malaria parasite.
   3. Oral Thrush.

III. Short answers: (5 x 2 = 10)
   1. Gene transfer methods.
   2. What is meant by dental plaque and dental caries?
   3. What is B-cells and T-cells?
   4. Pasteurization.
   5. Write 2 stains and 2 cultures used for fungal identification.

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