

A

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(20222)

Roll No. ....

B.D.S.-II Prof.



**5138 (AN)**

**B.D.S. Supply. & Main**

**Examination, Feb. - 2022**

**General Pathology & Microbiology**

**[BDS-04(N)]**

*Time : Three Hours ]*

*[Maximum Marks : 70*

**Note :** Answer **all** questions. Illustrate your answer with suitable diagrams. Use separate copy for **Part-A** and **Part-B**.

**Part - A**

**(General Pathology)**

1. Define apoptosis. Describe the mechanism of apoptosis. 7
2. What is wound healing? Describe types and mechanism of wound healing. 7

**P.T.O.**

3. Differentiate between the following:

3×3=9

(a) Benign tumors and Malignant tumours

(b) Type I and Type IV Hypersensitivity

(c) Transudate and Exudate

4. Write short notes on:

3×4=12

(a) Physical and Chemical properties of amyloid.

(b) Granulomatous inflammation

(c) Acquired Immunodeficiency Syndrome (AIDS)

(d) Scurvy

### **Part - B**

### **(Microbiology)**

5. Define Hypersensitivity. Classify different

**5138(AN)/2**

types of hypersensitivity reactions  
and explain type I hypersensitivity  
reactions. 10

6. Describe in detail about: 5×2=10

(a) Differentiate between Active &  
Passive immunity.

(b) Hot air Sterilization

7. Write briefly about (any **three**) 5×3=15

(a) Bacterial Growth curve

(b) Non Sporing anaerobes responsible  
for Dental infections.

(c) Clinical manifestations and laboratory  
diagnosis of Candidiasis.

**5138(AN)/3**

**P.T.O.**

(d) Difference between Herpes Simplex  
virus-1 (HSV-1) and Herpes Simplex  
virus-2 (HSV-2).

**5138(AN)/4**

D

(Printed Pages 2)

(20421)

Roll No.

**B.D.S.-II Prof.**

**5138(AN)**

**B.D.S. Supply. & Main**

**Examination, April - 2021**

**GENERAL PATHOLOGY & MICROBIOLOGY**

**[BDS-04(N)]**

*Time : Three Hours ]*

*[Maximum Marks : 70*

**Note :** Answer **all** questions. Illustrate your answer with suitable diagrams. Use separate copy for **Part-A** and **Part-B**.

**Part - A**

1. Define & classify inflammation. Write cellular events of acute inflammation. 10
2. Write classification of tumor. Describe spread of tumor in detail. 10
3. Write short notes on any 3:  $5 \times 3 = 15$   
(a) Hemophilia

**P.T.O.**



- ☒ (b) Gas gangrene
- ☒ (c) Peripheral blood smear findings in Iron deficiency Anaemia
- ☒ (d) Granuloma

**Part - B**

**(Microbiology)**

1. Describe the pathogenesis, clinical features, laboratory diagnosis and management of corynebacterium diphtheriae. 10
2. Describe in detail about the principle, types and applications of Elisa. 10
3. Discuss briefly about (any **three**):  
5×3=15
  - (a) Oral thrush and its diagnosis.
  - ☒ (b) Autoclave
  - ☒ (c) Labelled diagram of giardia lamblia cyst.
  - ☒ (d) Opportunistic infections in HIV.

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B.D.S.-II Prof.

Printed Pages : 2

Roll No. ....

**5138(AN)**

**B.D.S. Supply. & Main Examination,  
November-2019**

**GENERAL PATHOLOGY &  
MICROBIOLOGY**

**[BDS-04(N)]**

*Time : Three Hours]*

*[Maximum Marks : 70*

**Note :** Attempt all questions. Illustrate your answers with suitable diagrams. Use separate copy for Part-A and Part-B.

**Part-A**

**(General Pathology)**

1. Define and classify necrosis. Write morphology of each necrosis. 7
2. Define neoplasm. Describe the pathogenesis and mode of spread of tumor. 7
3. Write short notes on : 3×3=9
  - (a) Fatty change Liver
  - (b) Complications of Diabetes Mellitus
  - ✓(c) Hemophilia

**5138(AN)**

**[P.T.O.]**



(2)

4. Differentiate between

3×4=12

- (a) Arterial and venous thrombus
- (b) Benign and malignant hypertension
- (c) Reversible and irreversible cell injury
- (d) Metaplasia and dysplasia

**Part-B**  
**(Microbiology)**

1. Define and classify hypersensitivity. Describe type I hypersensitivity. 10

2. Describe in detail about 5×2=10

- (a) Modes of transmission of HIV infection.
- (b) Difference between active and passive immunity

3. Write briefly about (any three) 5×3=15

- (a) Louis Pasteur
- (b) Bacterial Spore
- (c) Immunoglobulin A
- (d) Hapten

**5138(AN)**



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B.D.S.-II Prof.

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Roll No. ....



**5138(AN)**

**B.D.S. Supply. & Main Examination,  
November-2018**

**GENERAL PATHOLOGY &  
MICROBIOLOGY**

**[BDS-04(N)]**

*Time : Three Hours]*

*[Maximum Marks : 70*

*Note : Attempt all the questions. Illustrate your answer  
with suitable diagrams. Use separate copy for  
Part-A and Part-B.*

**Part-A**

**(General Pathology)**

1. What is cell injury ? Describe in detail about various  
types of cell injury and also its mechanism. 7
2. What is neoplasia ? Classify and write in short about  
pathogenesis of neoplasia. 7
3. Differentiate between : 3×4=12
  - (a) Apoptosis and necrosis
  - (b) Dystrophic and metastatic calcification
  - (c) Humoral and cellular immunity
  - (d) Thrombosis and embolism.

**5138(AN)**

**[P.T.O.]**



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4. Write short notes on -

3×3=9

- (a) Ame Loblastoma
- (b) Microscopic picture of squamous cell carcinoma
- (c) Tumours of salivary gland.

**Part-B**  
**(Microbiology)**

1. Define Hypersensitivity. Explain type I and type IV hypersensitivity reaction in detail. 10

2. Describe in detail about : 5×2=10

- (a) Gram positive cell wall vs Gram negative cell wall
- (b) Toxin and enzymes produced by staphylococcus aureus.

3. Write briefly about (any *three*) : 5×3=15

- (a) Candidiasis
- (b) Laboratory diagnosis of Hepatitis B.
- (c) Pathogenesis and laboratory diagnosis of syphilis
- (d) Classification of Mycobacterium.





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(201117) Roll No. ....

B.D.S. II Prof.

5138(AN)

**B.D.S. Supply. & Main  
Examination, Nov-2017**

**General Pathology & Microbiology**

**[BDS-04(N)]**

*Time : Three Hours ] [Maximum Marks : =70*

**Note :** Answer **all** questions. Illustrate your answer with suitable diagrams. Use separate copy for **Part-A** and **Part-B**.

**Part-A**

**(General Pathology)**

1. Describe the causes and mechanism of development of fatty liver. 7

**P.T.O.**



2. Define and classify shock. Describe its pathogenesis and clinical presentation. 7
3. Differentiate between :  $3 \times 4 = 12$ 
  - (a) Benign and Malignant tumors.
  - (b) Dry and wet gangrene.
  - (c) Healing by primary and secondary Intention.
  - (d) Kwashiorkor and marasmus
4. Write short notes on any 3 :  $3 \times 3 = 9$ 
  - (a) Chemokines
  - (b) Causes of Pancytopenia
  - (c) Staining characteristics of Amyloid
  - (d) Enumerate the common causes of splenomegaly.

#### **Part-B**

#### **(Micro Biology)**

1. Define the term sterilization, disinfection and antiseptics. Name various agents used for

**5138(AN)/2**

- sterilization and discuss the role of autoclave in detail. 10
2. Write in brief about :  $5 \times 2 = 10$ 
  - (a) IgG
  - (b) ELISA
3. Describe briefly about (**any three**)  $5 \times 3 = 15$ 
  - (a) Dental plaque
  - (b) Mumps
  - (c) Laboratory diagnosis of candidiasis
  - (d) Clinical features of Malaria

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Roll No. ....

B.D.S. II Prof.

**5138(AN)**

**B.D.S. Supply. & Main Examination,  
November-2016**

**General Pathology & Microbiology  
(BDS-04)**

*Time : Three Hours ]*

*[Maximum Marks : 70*

**Note :** Answer **all** questions. Illustrate your answer with suitable diagrams. Use separate copy for **Part-A** and **Part-B**.

**Part-A**

**(General Pathology)**

1. Write in detail about cell derived chemical mediators of inflammation. 7
2. Describe and classify diabetes mellitus. Describe its pathogenesis, clinical features and complications. 7

**P.T.O.**

3. Differentiate between :  $3 \times 4 = 12$
- (a) Healing by primary intention and secondary intention.
  - (b) Red infarct and white infarct
  - (c) T cell and B cell
  - (d) Benign and malignant tumors
4. Write short notes on (**any 3**) :  $3 \times 3 = 9$
- (a) Causes of lymph adenopathy.
  - (b) Idiopathic Thrombocytopenic Purpura (ITP)
  - (c) Chemotaxis
  - (d) Thiamine deficiency.

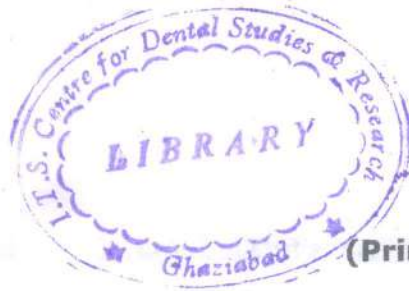
**Part-B**

**(Microbiology)**

1. Describe the pathogenesis, clinical features, laboratory diagnosis and management of corynebacterium diphtheriae. 10



2. Describe in detail about the principle, types and applications of Elisa.
3. Discuss briefly about (any **three**):  $5 \times 3 = 15$ 
  - (a) Autoclave
  - (b) Oral thrush and its diagnosis.
  - (c) Opportunistic infections in HIV.
  - (d) Labelled diagram of giardia lamblia cyst.



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Roll No. ....

B.D.S. II Prof.

**5138 (AN)**

**B.D.S. Supply & Main Examination,  
Feb. 2016**

**General Pathology & Microbiology**

**(BDS - 04)**

*Time : Three Hours ] [Maximum Marks : 70*

**Note :** Attempt **all** question. Illustrate your answer with suitable diagrams. Use separate copy for Part-A & Part-B.

**Part - A**

**(General Pathology)**

1. Define Inflammation. Discuss the role of chemical mediators in acute inflammation.

7

P.T.O.

2. Define and classify Oedema. Describe the pathogenesis of oedma. 7

3. Differentiate between:  $4 \times 3 = 12$

(a) Immidiate and delayed hypersensitivity

(b) Dystrophic and metastatic Calcification

(c) Necrosis and Apoptosis

(d) Adenoma and Carcinoma

4. Write short notes on : (Any **three**)  $3 \times 3 = 9$

(a) Human Oncogenic Viruses

(b) Iron deficiency Anemia

(c) Aphthus Ulcer

(d) Osteomyelitis

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**Part - B**

**(Microbiology)**

1. Name various types of disinfectants and discuss the role of halogens in chemical disinfections. 10
2. Describe in detail the sources of infections to humans beings. 10
3. Briefly write on (Any **three**)  $5 \times 3 = 15$ 
  - (a) Type I<sup>st</sup> Hypersensitivity reaction 5
  - (b) Modes of HCV transmission 5
  - (c) Diseases caused by *Streptococcus pyogenes* 5
  - (d) Opportunistic pathogens 5

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Roll No. ....

B. D. S. II Prof.

**5138(AN)**

**B. D. S. Supply. & Main Examination, Oct. 2015**

**General Pathology & Microbiology**

**[BDS - 04(N)]**

*Time : Three Hours]*

*[Maximum Marks : 70*

*Note :* Answer *all* questions. Illustrate your answer with suitable diagrams. Use separate copy for Part-A and Part-B.

**Part-A**

[Marks : 35

**(General Pathology)**

1. Define Neoplasia. Differentiate between the benign and malignant neoplasm. 7
  2. Define shock. Write the classification of shock. Discuss septic shock in detail. 7
  3. Differentiate between : 3×4=12
    - (a) Dry and wet gangrene
    - (b) Fat and air embolism
    - (c) Humoral and cellular immunity
    - (d) Hypoxic and chemical injury.
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4. Write short notes on (any three) :  $3 \times 3 = 9$
- (a) Ghon complex
  - (b) Chemotaxis
  - (c) Cloudy swelling
  - (d) Vitamin-D deficiency.

**Part-B**

[Marks : 35]

**(Microbiology)**

1. Define the terms – sterilization, disinfection and antisepsis. Name various agents used for sterilization and discuss the role of hot air oven in sterilization. 10
2. What are the various modes of spread of infection ? Describe each in brief giving suitable examples. 10
3. Briefly write on (any three) :  $5 \times 3 = 15$
- (a) Type-II hypersensitivity reaction
  - (b) Mode of HBV transmission
  - (c) Diseases caused by *Streptococcus pneumoniae*
  - (d) Opportunistic intestinal parasites in immunocompromised patients.

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Roll No. ....

B.D.S. II Prof.

**5138(AN)**

**B.D.S. Supply & Main Examination**

**March, 2015**

**General Pathology and Microbiology**

BDS-04(N)

*Time : Three Hours ] [Maximum Marks : 35+35=70*

**Note :** Attempt **all** questions. Illustrate your answers with suitable diagrams. Use separate copy for **Part-A** & **Part-B**.

**Part - A**

**(General Pathology)**

1. Define CELL INJURY. Describe different types and discuss HYPOXIC INJURY.  $1\frac{1}{2} + 5\frac{1}{2} = 7$
2. Define EMBOLISM. Discuss different types and effects of EMBOLISM.  $1\frac{1}{2} + 5\frac{1}{2} = 7$

P.T.O.

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3. Differentiate between:

4×3=12

(a) Transudate and Exudate

(b) NECROSIS and APOPTOSIS

(c) Primary and Secondary TUBERCULOSIS

4. Write short notes on (any **three**) : 3×3=9

(a) AMYLOIDOSIS

(b) FATTY CHANGE

(c) METASTASIS

(d) GANGRENE

### **Part - B**

#### **(Microbiology)**

1. Describe the Lance field classification of streptococci. Discuss the laboratory diagnosis of streptococcal sore throat.

10

2. Short notes:  $5 \times 3 = 15$

- (a) Mucocutaneous candidiasis
- (b) ORAL Herpes
- (c) Cariogenic bacteria

3. Discuss briefly:  $2\frac{1}{2} \times 4 = 10$

- (a) Principle of autoclave
- (b) Koch's postulates
- (c) Plasmids,
- (d) ELISA.

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Roll No. ....

B.D.S. II Prof.

**5138 (AN)**

**B.D.S. Supply & Main Examination,  
Feb. 2014**

**General Pathology & Microbiology**

(BDS - 04)

*Time : Three Hours ]*

*[Maximum Marks : 70*

**Note:** Attempt **all** questions. Illustrate your answer with suitable diagrams. Use separate copy for Part-A & Part-B.

**Part-A**

**(General Pathology)**

1. What is healing. Describe Regeneration and repair. 7
2. Define necrosis. Classify and discuss each type with examples. 7

**P.T.O.**

3. Differentiate between :  $4 \times 3 = 12$

- (a) Primary & Secondary intention healing
- (b) Ischaemia and Infarction
- (c) Exudate and Transudate
- (d) Metaplasia and Dysplasia

4. Briefly write on (any **three**) :  $3 \times 3 = 9$

- (a) Tubercular granuloma
- (b) Amyloidosis Kidney
- (c) Phagocytosis
- (d) Gangrene

#### **Part-B**

##### **(Microbiology)**

1. Define sterilisation and Disinfection. Discuss sterilisation by steam giving appropriate diagrams. 10
2. Define Antigen and Antibody and enumerate various Immuno globulins. Discuss about  $I_gG$ . 10

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3. Briefly write on (any **three**) :  $5 \times 3 = 15$

- (a) Type IV Hypersensitivity reaction
- (b) Modes of HIV transmission
- (c) Candidosis
- (d) Bacteriophage-its structure and significance.
- (e) Diseases caused by *Staphylococcus aureus*.

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Roll No. ....

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B.D.S. II Prob

**5138(AN)**

**B.D.S. (Main & Spll.) Examination, Sept. 2013**

**General Pathology & Microbiology**

**(BDS-04)**

*Time : Three Hours]*

*[Maximum Marks : 70*

*Note :* Attempt *all* questions. Illustrate your answer with suitable diagrams. Use separate copy for Part-A and Part-B.

**Part-A**

**(General Pathology)**

**[Marks : 35**

1. Define and classify hypertension. Describe its pathophysiology and effects on various organs. 4
2. Define necrosis. Explain its causes, features and types. 4
3. Differentiate between :  $3 \times 4 = 12$ 
  - (a) Haemolytic and Megaloblastic Anaemia
  - (b) Primary and Secondary Tuberculosis

( 2 )

(c) Humoral and Cellular Immunity

(d) Hyperplasia and Metaplasia.

4. Write short notes on any three :  $5 \times 3 = 15$

(a) Ischaemia

(b) Fallot's tetralogy

(c) Osteosarcoma

(d) Vitamin-A deficiency.

**Part-B**

**(Microbiology)**

[Marks : 35]

1. Define sterilisation and disinfection. Describe sterilisation by steam. (using appropriate diagrams). 10

2. Describe the morphology, cultural characteristics, pathogenecity and lab diagnosis of corynebacterium diphtheriae. 10

3. Briefly write short notes on any three :  $5 \times 3 = 15$

(a) Bacteriophage-structure and clinical significance

(b) Oral manifestations of systemic mycosis

(c) Vector borne protozoal diseases

(d) Draw the structure of IgG and mention its properties.

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Roll No. 6091038

B.D.S. II Prof.

**5138 (AN)**

**B.D.S. Supply & Main Examination,**

**March-2013**

**General Pathology and Microbiology**

**BDS-04 (N)**

*Time: Three Hours ] [ Maximum Marks : 35+35 = 70*

**Note:** Attempt **all** questions. Illustrate your answers with suitable diagrams. Use separate copy for Part-A & Part-B.

**PART - A**

**(General Pathology)**

1. Define necrosis and describe morphological changes in different types of necrosis with suitable examples.  $1\frac{1}{2} + 5\frac{1}{2} = 7$

P.T.O.

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2. Define Shock. Describe the pathogenesis of septic shock.  $1\frac{1}{2} + 5\frac{1}{2} = 7$

3. Differentiate between :  $4 \times 3 = 12$

(a) Benign and malignant hypertension

(b) Dystrophic and Metastatic Calcification

(c) Healing by primary and secondary intention

4. Write short notes on (any three) :  $3 \times 3 = 9$

(a) Hemophilia

(b) Free radicals

(c) Primary Complex

(d) Reed Sternberg Cell

### PART - B

#### (Microbiology)

1. Classify Streptococcus. Describe in detail pathogenesis and laboratory diagnosis of Streptococcus pyogenes. 10

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2. Define Sterilization and Disinfection. Enumerate the different methods of Sterilization. Briefly comment on working principle of autoclave. 10

3. Briefly comment on (any **three**):  $5 \times 3 = 15$

(a) Tissue culture techniques

(b) Dental Caries

(c) Hydatid Cyst

(d) M.O.T.T.

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Roll No. ....

B.D.S. II Prof.

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**B.D.S. Supply. Examination, July 2011**

**General Pathology and Microbiology**

**BDS - 04(N)**

*Time : Three Hours ]*

*[ Maximum Marks : 70*

**Note :** Attempt **all** questions. Use separate copy for Part-A & Part-B. Draw diagrams wherever necessary.

**PART - A**

**(General Pathology)**

1. Define and classify necrosis. Describe each type in brief with labelled diagrams. 7

**P.T.O.**



2. Define shock and describe pathogenesis of septic shock. 7

3. Differentiate between : (4×3=12)

- (a) Metastatic and dystrophic calcification
- (b) Hypertrophy and Hyperplasia
- (c) Arterial and Venous thrombus

4. Write briefly on (any three) : 3×3=9

- (a) Diabetic Nephropathy
- (b) Factors affecting wound healing
- (c) Leukamoid reaction
- (d) Tubercular granulema

#### **PART - B**

#### **(Microbiology)**

1. Classify Mycobacteria. Discuss laboratory diagnosis of pulmonary tuberculosis. 13

5138(A)N\440\2

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OR

Define and classify Hypersensitivity reactions. Describe in detail about type I Hypersensitivity.

2. Comment briefly on (Any two) (5×2=10)

1. Vaccine ✓
2. Cell culture techniques for viral growth
3. Enzyme Linked Immunosorbent Assay

3. Write short notes on (any three) 4×3=12

1. Bacterial growth curve
2. Dental cavities
3. Hydatid Cyst
4. Autoclave

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Roll No. ....

B.D.S. II Prof.

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B.D.S. Examination, Dec. 2011  
General Pathology & Microbiology

BDS - 04

Time: Three Hours ]

[ Maximum Marks : 70

Note : Attempt all questions. Illustrate your answer with  
suitable diagrams. Use separate copy for Part-A  
& Part-B.

Part - A

(General Pathology)

1. What are causes of, pathogenesis morphological  
changes and stages of septic shock. 4
2. Define and classify Anaemia. What are causes of

P.T.O.



11  
haemolytic anaemia?

4

3. Differentiate between :

4×3=12

- (a) Tuberculoid and Lepromatous leprosy.
- (b) Necrosis and Gangrene.
- (c) Benign and malignant tumour.
- (d) Atrophy and Hypertrophy.

4. Write short notes (**any three**) :

5×3=15

- (a) Acute Inflammation
- (b) Types and stages of Syphilis
- (c) Thrombosis
- (d) Oedema
- (e) Osteosarcoma.

### Part - B

#### ✓ (Microbiology)

- 1. Enumerate oral flora. Describe the pathogenesis of Dental Caries and its prevention. 10
- 2. Describe the morphology, modes of transmission, pathogenicity and laboratory diagnosis of Hepatitis

5138(AN)\960\2

11  
B virus.

10

3. Briefly write on (**any three**)

5×3=15

- (a) Laboratory diagnosis of diphtheria.
- (b) Characteristics of helminths. Classify helminths giving examples.
- (c) Hypersensitivity type I reactions.
- (d) Mechanism of drug resistance in bacteria.

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Roll No. ....

B.D.S. II Prof.

**5138 (AN)**

**B.D.S. Examination Nov. 2010**

**General Pathology & Microbiology**

**Paper - I**

**BDS - 04 (N)**

**Time : Three Hours ]**

**[ Maximum Marks : 70**

**Note :** Attempt all questions. Illustrate your answer with suitable diagrams. Use separate copy for Part-A & Part - B.

**Part - A (General Pathology)**

1. Define inflammation & describe cellular events of acute inflammation.  $1\frac{1}{2} + 5\frac{1}{2} = 7$
2. Define & classify Anaemia. Write laboratory diagnosis

**P.T.O.**



of Iron deficiency anaemia.

$$1\frac{1}{2} + 1\frac{1}{2} + 4 = 7$$

3. Differentiate between :

$$4 \times 3 = 12$$

(a) Exudate & Transudate

(b) Benign & Malignant tumor

(c) Necrosis & Apoptosis

4. Write short notes on (Any three) :

$$3 \times 3 = 9$$

(a) Fatty liver

(b) Giant cell

(c) Leucoplakia

(d) Dysplasia

#### Part - B (Microbiology)

1. Discuss in detail the pathogenesis & laboratory diagnosis of corynebacterium diphtheriae. 10

2. Define & classify hypersensitivity. Briefly explain hypersensitivity Type I. 10

5138(AN)\700\2

10

3. Comment briefly on (Any three) :

5 x 3 = 15

- (a) Dental caries
- (b) Working principle of autoclave
- (c) Extra intestinal amoebiasis ✓
- (d) Non-suppurative complications of streptococcus pyogenes.

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(2129)  
BDS II Prof.

Roll No. 609832

5138(A)

B. D. S. Examination, 2009

Paper-I

General Pathology & Microbiology

(BDS-04)

Time : Three Hours]

[Maximum Marks : 50

Note : Attempt all questions. Use separate copy for Part I and Part II. Draw related diagrams, flow charts and tables.

Part I

[Marks : 25

1. Define Anaemia and give its classification. Describe the laboratory findings in case of Megaloblastic anaemia.

2. Write in brief about :

- (a) Differences between Tuberculoid and Lepromatous leprosy.
- (b) Factors effecting wound healing.

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3. Draw labelled diagrams of :

- (a) TB granuloma
- (b) Mechanism of Type I hypersensitivity.

Part II

[Marks :25]

1. Enumerate normal flora of oral cavity. Describe the pathogenesis of dental caries.
2. Define sterilization and disinfection. Describe the principle, procedure and precautions of carrying out autoclaving.
3. Write short notes on :
  - (a) Diseases caused by *Entamoeba histolytica* and draw a labelled diagram of *Entamoeba histolytica*
  - (b) Characteristics of nematodes. Enumerate 4 faeco orally transmitted viral diseases.

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B.D.S. II Prof.

Roll No. ...6097003

**5138(A)**

**B.D.S. Examination, 2009** (2010)

**Paper - I**

**General Pathology & Microbiology**

**(BDS-04)**

*Time : Three Hours ]*

*[ Maximum Marks : 50*

**Note :** Attempt all questions. Use separate copy for Part-I & Part-II. Draw related diagrams, flow charts & tables.

**Part-I**

1. Write down the causes, pathogenesis morphological changes and stages of septic shock.

10

P.T.O.

2. Write in brief about :

(a) Differences between Transudate and Exudate.

5

(b) Differences between Necrosis and Gangrene.

5

3. Write short notes on :

(a) Effects of Radiations on body

2½

(b) Phagocytosis

2½

### Part-II

1. Enumerate five gram positive bacteria. Describe the morphology, staining characteristics, culture media and disease caused by *Corynebacterium diphtheriae*.

10

2. What is hypersensitivity? Describe type IV hypersensitivity.

10

3. Write short notes on :

(a) CSF picture in pyogenic meningitis.

2½

(b) Classify viruses on basis of their nucleic acid.

2½



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Roll No.....

B.D.S. II Prof.

5138(A)

**B.D.S. Examination, 2008**

**Paper-I**

**General Pathology & Microbiology**

**(BDS-04)**

**Time : Three Hours}**

**{ Maximum Marks : 50**

**Note:** Attempt all questions. Use separate copy for part I & part II. Draw related diagrams, flow charts & tables.

**PART-I**

1. Define Necrosis. Classify and discuss each type with suitable examples. 10
2. Write in brief about : 10
  - (a) Difference between Primary & second intention healing.
  - (b) Difference between Benign & malignant tumour.
3. Draw labelled diagrams of :
  - (a) Tuberculous Granuloma 2½
  - (b) Amyloidosis Kindey. 2½

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**PART-II**

1. Discuss difference between immunity and hypersensitivity. Classify types of hypersensitivity reaction and describe Type IV hypersensitivity reaction. 10
2. Enumerate the bacteria causing Pyogenic meningitis and write the colony characteristics, special features and specific culture media required for pneumococcal infection. 10
3. Write short notes on :
  - (a) Autoclaving 2½
  - (a) Normal flora of mouth and their reaction in immuno-deficiency diseases. 2½

—X—



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B.D.S. II Prof.

Roll No.....

**5138 (A)**

**B.D.S. Examination, Nov. 2006**  
**GENERAL PATHOLOGY & MICROBIOLOGY**

**Paper - I**  
**(BDS-04)**

**Time : Three Hours ] [ Maximum Marks : 50**

**Note : Attempt all questions. Use separate answer sheets for Part I & Part II. Draw related diagrams, flow charts & tables.**

**PART-I (PATHOLOGY)**

Q.1. Describe Acute Inflammation. Write differences between Acute and Chronic inflammation. 8

Q.2. Write short notes on : 8

- (a) Iron deficiency anemia
- (b) Bleeding disorder

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Q.3. Write short notes on :

- (1) Hodgkin's Lymphoma
- (2) Necrosis
- (3) Acute Myeloid Leukemia

## PART-II (MICROBIOLOGY)

Q.4. Write about Pathogenic bacteria producing sore throat. Write about Laboratory diagnosis of sore throat. 8

Q.5. Write short notes on : 8

- (a) Anaphylactic hypersensitivity Reaction.
- (b) Dental caries

Q.6. Write short notes on : 9

- (a) Amoebiasis
- (b) Syphilis
- (c) Tetanus

—X—

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Roll No. ....

B.D.S. II Prof.

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5138 (A)

B.D.S. Examination, 2005

GENERAL PATHOLOGY & MICROBIOLOGY

Paper - I

( BDS-04 )

Time : Three Hours ]

[ Maximum Marks : 50

**Note :** Attempt all questions. Use separate answer sheets for Part I and Part II. Draw related diagrams, flow charts and tables.

Part - I  
(Pathology)

1. Define necrosis. Write in brief about caseous necrosis and illustrate with the help of a diagram. 8
2. Differentiate between : 8
  - (a) Dystrophic and metastatic calcification.
  - (b) Benign and malignant tumours.

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3. Write short notes on the following :

9

- (a) Amyloidosis
- (b) Acute Myeloid Leukemia - FAB classification.
- (c) Fatty change liver.

**Part - II**  
**(Microbiology)**

4. Discuss the orofacial lesions caused by viruses and fungi.

8

5. Write briefly on :

8

- (a) Gas gangrene.
- (b) Primary complex in tuberculosis.

6. Write short notes on the following :

9

- (a) Type IV Hypersensitivity reaction.
- (b) Pyogenic meningitis.
- (c) Dental caries.

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BDS II Prof.

5138(A)

B. D. S. Examination, March 2005

GENERAL PATHOLOGY &amp; MICROBIOLOGY

Paper I

(BDS-04)

Time : Three Hours]

[Maximum Marks : 50

Note : Attempt any Five questions. All questions carry equal marks.

1. (a) Describe causes of cell injury.

Or

(b) Describe types of oedema.

2. (a) Infarction.

Or

(b) Atherosclerosis.

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(2)

3. (a) Healing of fractured bone.

Or

(b) Osteodystrophies.

4. (a) AIDS.

Or

(b) Papilloma viruses.

5. (a) Types of granulomata.

Or

(b) Types of tubercular infections.

6. (a) Giant cell tumour.

Or

(b) Giant cell epulis.

7. (a) Thalassaemia.

Or

(b) Haemolytic disease of newborn.

8. (a) Nutritional deficiency diseases.

Or

(b) Protein calorie malnutrition.

(3)

9. (a) Elephantiasis.

Or

(b) Kala azar.

10. (a) Megaloblastic anaemia.

Or

(b) Radiation injuries.

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SECOND YEAR B.D.S. DEGREE EXAMINATION, 2001

GENERAL PATHOLOGY AND MICROBIOLOGY  
Maximum : 70 Marks

Time : Three Hours

Section A (General Pathology)

(45 marks)

I. Long Essays :

1. Describe spread of malignant tumours.

(1 × 10 = 10 marks)

II. Short Essays (Answer any five)

2. Ameloblastoma.
3. Infarction.
4. Wet gangrene.
5. Calcifying Epithelial Odontogenic Tumour.
6. Tuberculoid Leprosy.
7.  $\beta$ -Thalassemia.

(5 × 5 = 25 marks)

III. Short Answers :

8. Rickets.
9. Maduramycosis. (madura foot)
10. Haemophilia.
11. Metaplasia.
12. Dystrophic calcification.

(5 × 2 = 10 marks)

Section B (Microbiology)

(25 marks)

I. Long Essays :

1. Define and classify various methods of sterilisation.  
Discuss in detail about dry heat sterilisation in dental practice.

(1 × 10 = 10 marks)

II. Short Essays (Answer any three) :

2. Oral antiseptics.
3. Herpetic lesions in the oral cavity.
4. Ancylostoma duodenale.
5. Lab diagnosis of fungal infections in oral cavity.

(3 × 5 = 15 marks)



22  
31  
62

SECOND YEAR B.D.S. DEGREE EXAMINATION, 2001  
GENERAL PATHOLOGY AND MICROBIOLOGY

Time: Three Hours

Maximum: 70 Marks

*Your answers shall be specific to the questions asked.  
Draw neat and labelled diagrams wherever necessary.  
Answer the questions completely in one place only.  
Answer Sections A and B in separate answer-books.*

**Section A (General Pathology)**  
(45 marks)

I. Long Essay :

- 1 Describe "chemical mediators" of inflammation.

(10 marks)

II. Short Essays (Answer any five) :

- 2 Embolism.  
3 Giant cell reparative granuloma.  
4 Megaloblastic anaemia.  
5 Squamous cell carcinoma.  
6 Gas gangrene.  
7 Features of congenital syphilis.

(5 × 5 = 25 marks)

III. Short Answers :

- 8 Osteomalacia.  
9 Dysplasia.  
10 Leukemoid reaction.  
11 Granulation tissue.  
12 Moniliasis.

(5 × 2 = 10 marks)

**Section B (Microbiology)**  
(25 marks)

I. Long Essay :

- 1 Define Sterilisation and Disinfection. Classify the various methods of sterilisation in microbiology. Add a note on moist heat sterilisation.

(10 marks)

II. Short Essays (Any three) :

- 2 Serodiagnosis of syphilis.  
3 Oral spirochaetes.  
4 Media for cultivation of bacteria.  
5 Antibacterial agents on anaerobic bacteria.

(3 × 5 = 15 marks)



36 38 SK-032 38

SECOND YEAR B.D.S. DEGREE EXAMINATION, 1999

GENERAL PATHOLOGY AND MICROBIOLOGY

Time : Three Hours

Maximum : 70

Instructions to Candidates :

- (1) Answer Sections A and B in separate answer-books.  
(2) Draw diagrams wherever appropriate.

Section A (General Pathology)  
(45 marks)

I. Long Essay :

- (a) Define "Inflammation".  
(b) Discuss the role of chemical mediators in the process of inflammation.

II. Write short notes on : (any five)

- (a) Scurvy.  
(c) Thrombosis.  
(e) Fatty degeneration.  
(b) Oncogene.  
(d) Gangrene.  
(f) Blood picture in iron deficiency anaemia

(5 × 5 = 25)

III. Write short answers :

- (a) Ghon's focus.  
(c) Gangrene.  
(e) Types of Oedema.  
(b) Osteomyelitis.  
(d) Chronic myeloid leukaemia.

(5 × 2 = 10)

Section B (Microbiology)  
(25 marks)

I. Long Essay :

Enumerate the organisms causing white patch in the throat. Describe the laboratory diagnosis of Diphtheria.

(1 × 10 = 10)

II. Write short notes on : (any three)

- (a) Secretory immunoglobulin.  
(b) Bacterial vaccines.  
(c) Entamoeba histolytica.  
(d) Sterilization.

(3 × 5 = 15)



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**II Year B.D.S Degree Examination**  
**June 1997**

**General Pathology & Microbiology**

Time :  $1\frac{1}{2}$  hrs.

Max.Marks : 50

**SECTION - A**

- I.** Define Gangrene  
What are the different types of Gangrene?  
Describe the Pathological features of any one type of Gangrene. 16
- II.** Define Neoplasm.  
Describe the Modes of spread of Malignant Neoplasms. 16
- III.** Write short Notes on ANY THREE
- a) Exudate
  - b) Factors Affecting wound Healing.
  - c) Embolism
  - d) Blood picture in acute Leukaemia  $6 \times 3 = 18$

Contd.... 2