

51212

**Second B.P.T.H. (2012) Examination, Winter 2018
PATHOLOGY AND MICROBIOLOGY**

Total Duration : Section A + B = 3 Hours

Total Marks : 80

SECTION – A and SECTION – B

- Instructions :**
- 1) Use **blue/black ball point pen** only.
 - 2) **Do not** write anything on the **blank portion of the question paper**. If written anything, such type of act will be considered as an attempt to resort to unfair means.
 - 3) **All** questions are **compulsory**.
 - 4) The number to the **right** indicates **full** marks.
 - 5) Draw diagrams **wherever** necessary.
 - 6) Distribution of syllabus in Question Paper is only meant to cover entire syllabus within the stipulated frame. The Question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question paper. Students cannot claim that the Question is out of syllabus. As it is only for the placement sake, the distribution has been done.
 - 7) **Use** a common answerbook for **all** Sections.

**SECTION – A (50 Marks)
(Pathology)**

1. Short answer question (**any five** out of six) : **(5×7=35)**
 - a) Write a note on Myasthenia gravis.
 - b) Enumerate causes of edema. Differentiate between transudate and exudate.
 - c) Define neoplasia. Describe the modes of spread of a malignant neoplasm.
 - d) Describe the pathology and complications of a benign peptic ulcer.
 - e) Define degeneration. Describe any three types of degeneration with examples.
 - f) Enumerate occupational lung diseases. Write a note on asbestosis.
2. Long answer question (**any one** out of two) : **(1×15=15)**
 - a) Discuss Muscular Dystrophies.
 - b) Classify arthritis. Discuss the aetiopathogenesis, manifestations, lab investigations and complications of Rheumatoid arthritis.

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SECTION – B (30 Marks)
(Microbiology)

3. Short answer question (**any three** out of four) :

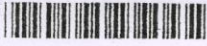
(3×5=15)

- a) Write a note on Candidiasis.
- b) Write a note on Hospital acquired infections.
- c) Write a note on Hydatid cyst.
- d) Write a note on VDRL test.

4. Long answer question (**any one** out of two) :

(1×15=15)

- a) Mention the modes of transmission of HIV. 2
Define Window period. 1
Describe laboratory diagnosis of HIV. 10
Mention two opportunistic fungal pathogens. 2
- b) Classify Clostridia. 2
Describe the morphology of Clostridium welchii along with a labelled diagram. 2
Describe the pathogenesis and laboratory diagnosis of Gas gangrene. 8
Write a note on Nagler's reaction. 3



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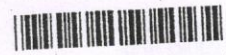
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SECTION "A" (50 Marks)
(Pathology)

1. Short answer question (**any five** out of six) : (5×7=35)
 - a) Write in short about Duchenne's Muscular dystrophy.
 - b) Write in short about Osteoarthritis.
 - c) Enumerate causes of Atrophy.
 - d) Define Apoptosis. Write in short about examples of Apoptosis.
 - e) Give a brief note on GHON'S complex.
 - f) What is amyloidosis. Enumerate special stains for amyloidosis.

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(1×15=15)

2. Long answer question (**any one** out of two) :
- Define edema. Discuss etiopathogenesis of edema. Give differences between transudate and exudate.
 - Describe etiopathogenesis, gross features and microscopic changes of acute Myocardial infarction.

SECTION "B" (30 Marks)
(Microbiology)

3. Short answer question (**any three** out of four) :

(3×5=15)

- Opportunistic fungal infections.
- Laboratory diagnosis of Malarial infection.
- Complement fixation test.
- Laboratory diagnosis of Gas gangrene.

4. Long answer question (**any one** out of two) :

(1×15=15)

- Enumerate the organisms causing diarrhea. Write laboratory diagnosis of Vibrio cholera.
- Draw a labeled diagram of Human Immunodeficiency Virus. Define window period and describe Laboratory diagnosis of Human Immunodeficiency Virus.



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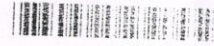
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SECTION – A (50 Marks)

(PATHOLOGY)

1. Short answer question (**any five** out of six) : (5×7=35)
 - a) Define oedema. Differentiate between transudate and exudate.
 - b) Write a short note on Rickets.
 - c) Describe the modes of spread of a malignant neoplasm.
 - d) Define pneumoconiosis. Write a brief note on Asbestosis.
 - e) Write in short predisposing factors and complications of acute myocardial infarction.
 - f) Describe the types of necrosis with suitable examples.
2. Long answer question (**any one** out of two) : (1×15=15)
 - a) What is inflammation ? Discuss the vascular and cellular events in acute inflammation.
 - b) Classify muscular disorders. Discuss muscular dystrophies in detail.



SECTION – B (30 Marks)
(MICROBIOLOGY)

3. Short answer question (**any three** out of four) : (3×5=15)
- a) Define serological reactions. Enlist the various types of serological reactions. Discuss Agglutination reaction and its application.
 - b) Enumerate the causative agents of Sexually Transmitted Diseases (STD). Write the serological diagnosis of Syphilis.
 - c) Enumerate the superficial fungal infections. Discuss the laboratory diagnosis of Dermatophytosis.
 - d) Write the difference between *T. Saginata* and *T. soleum*.
4. Long answer question (**any one** out of two) : (1×15=15)
- a) Define Bio-Medical Waste(BMW). 1
 Name the various categories of BMW according to BMW (Disposal and Management Rules) 1998. 5
 Mention the colour codes used for various categories. 4
 Describe the different modes of treatment used to treat different categories of waste. 5
 - b) Define window period. 2
 Write the various modes of transmission of HIV infection. 3
 Discuss the laboratory diagnosis of HIV infection. 10
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SECTION – A (50 Marks)
(Pathology)

1. Short answer question (any five out of six) : (5×7=35)

- a) Write on Scurvy.
- b) Describe etiology, pathogenesis and fate of thrombosis.
- c) Reversible injury.
- d) Exogenous pigments. *Define Neoplasia. Write differences between Benign & Malignant neoplasms.*
- e) Cellular events in acute inflammation.
- f) Free radicals and cell injury.

2. Long answer question (any one out of two) : (1×15=15)

- a) Define repair. Mention factors affecting wound healing. Describe healing of bone fracture.
- b) Enumerate hypersensitivity reactions. Write pathology of type IV hypersensitivity reaction with examples.

Q.No. 1d) replaced by following new questions -

d) Define Neoplasia. Write differences between Benign & Malignant neoplasms.

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SECTION – B (30 Marks)
(Microbiology)

3. Short answer question (any three out of four) :

(3×5=15)

- a) Write differences between the Innate Immunity and Acquired Immunity.
- b) Define Sterilization. Write the principle, working and control of Autoclave.
- c) Write a note on Candidiasis.
- d) Cultivation of Viruses.

4. Long answer question (any one out of two) :

(1×15=15)

- a) Classify Mycobacteria. Write in detail about the Pathogenesis and Laboratory diagnosis of Pulmonary tuberculosis.
 - b) Enumerate blood parasites. Write about the life cycle, pathogenesis and laboratory diagnosis of Malarial parasite.
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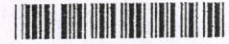
SECTION – A (50 Marks)

(Pathology)

1. Short answer question (**any five** out of six) : (5×7=35)
 - a) Mention different types of necrosis with suitable examples.
 - b) Define repair. Describe healing by primary intention.
 - c) Write in short laboratory diagnosis of iron deficiency anaemia.
 - d) Describe clinical features and pathology of rheumatoid arthritis.
 - e) Mention classical features of scurvy.
 - f) Mention various bone tumors and write in brief about osteogenic sarcoma.

2. Long answer question (**any one** out of two) : (1×15=15)
 - a) Define thrombosis. Write a note on pathogenesis and complications of a thrombus.
 - b) Discuss clinical features and pathology of various congenital myopathies.

P.T.O.



SECTION – B (30 Marks)

(Microbiology)

3. Short answer question (**any three** out of four) : (3×5=15)
- a) Discuss types of innate immunity and the factors that affect them.
 - b) Write on Universal safety precautions.
 - c) Write on laboratory diagnosis of HIV.
 - d) Discuss Neurocysticercosis.
4. Long answer question (**any one** out of two) : (1×15=15)
- a) Discuss pathogenesis and laboratory diagnosis of Pulmonary tuberculosis.
 - b) Enumerate causative agents of superficial fungal infections and discuss the laboratory diagnosis of Dermatophytosis.
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SECTION – A
(Pathology)

(50 Marks)

1. Short answer question (**any five** out of six) : **(5x7=35)**
 - a) Define necrosis. Describe types of necrosis with examples of each.
 - b) Define and classify anaemia. Describe laboratory investigations of megaloblastic anaemia.
 - c) Write a note on myasthenia gravis.
 - d) Describe aetiopathogenesis and pathology of Rheumatoid Arthritis.
 - e) Describe fracture healing. Add a note on complications of fracture healing.
 - f) Define meningitis. Write organisms causing meningitis. Describe CSF findings in Pyogenic and Tuberculous meningitis.

2. Long answer question (**any one** out of two) : **(1x15=15)**
 - a) Define thrombosis. Describe aetiopathogenesis and morphology of thrombus. Add a note on its complications.
 - b) Define neoplasia. Write differences between benign and malignant tumors. Add a note on routes of spread of tumors.

P.T.O.



SECTION – B
(Microbiology)

(30 Marks)

3. Short answer question (**any three** out of four) : (3x5=15)
- a) Write a note on Autoimmunity.
 - b) Discuss laboratory diagnosis of Dermatophytosis.
 - c) Hydatid cyst.
 - d) Discuss pathogenesis and laboratory diagnosis of Hepatitis B infection.
4. Long answer question (**any one** out of two) : (1x15=15)
- a) Enumerate causative agents of sexually transmitted diseases and discuss laboratory diagnosis of syphilis.
 - b) Define sterilization and disinfection. Classify and enumerate methods of sterilization. Write a note on Autoclave.
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