

Second B.P.Th. (2012) Examination, Winter - 2020
PATHOLOGY & MICROBIOLOGY



Total Duration : Section A+B = 3 Hours

Total Marks: 80

SECTION - A & 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)

- I. Short answer question (any five out of six) : [5 × 7 = 35]
- a) Define myocardial infarction. Enlist the complications & important laboratory investigations.
 - b) Describe briefly Osteomyelitis.
 - c) Define amyloidosis. Enlist the various causes of amyloidosis and the special stains used for its diagnosis.
 - d) Define muscular dystrophy. Describe Duchenne muscular dystrophy.
 - e) Describe the pathology and complications of pyogenic meningitis.
 - f) Define neoplasia. Enumerate differences between benign & malignant tumors.

2. Long answer question (any one out of two) : [1 × 15 = 15]
- a) Define oedema. Briefly describe the etiological types & give differences between transudate & exudate.
 - b) What is Ghons complex? Describe the lesions in secondary pulmonary tuberculosis.

SECTION - "B" (30 Marks)

(Microbiology)

3. Short answer question (any three out of four) : [3 × 5 = 15]
- a) Define Hospital Acquired Infections (HAI). Enumerate common hospital acquired infections and organisms associated with them.
 - b) Write a short note on Mycetoma with its laboratory diagnosis.
 - c) Mention etiological agents of Gas gangrene. Describe the laboratory diagnosis of Gas gangrene.
 - d) Mention the different routes of HIV transmission. Write briefly about its laboratory diagnosis.

4. Long answer question (any one out of two) : [1 × 15 = 15]
- a) Name the organism causing Syphilis. Discuss its morphology and mention various modes of its transmission in humans. Describe its laboratory diagnosis. [2+6+7]
 - b) Describe the structure of a virus particle. Give two examples each of DNA and RNA viruses. Write a short note on cultivation of viruses. [4+3+8]



Second B.P.TH. (2012) Examination, (Phase - III) Winter - 2021

PATHOLOGY AND MICROBIOLOGY

Total Duration : 3 Hours

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 - 7) Use a common answer book for all Sections.

SECTION "A" (50 Marks)
(Pathology)

1. Short answer question (any five out of six): [5×7=35]
 - a) Define necrosis write its type , Explain any 3 types of Necrosis.
 - b) Enumerate various Granulomatous lesions. Describe formation of Granuloma and its microscopic features.
 - c) What is Oedema.Enumerate various pathogenetic mechanisms of oedema with examples of each..
 - d) Explain characteristic features of Malignant Neoplasms.How will you stage a malignant tumour
 - e) What do you mean by Ischemic Heart Disease. give etiological causes of Acute myocardial Infarction, explain various diagnostic parameters of this condition.
 - f) Describe Hyperthyroidism in terms of causes, clinical features and laboratory parameters.

2. Long answer question (any one out of two): [1×15=15]
 - a) Classify Amyloidosis. explain its pathogenesis and morphological features in relation to Kidney liver and Spleen.
 - b) Describe granulation tissue. Write healing of wound by primary intention. Enumerate factors affecting wound healing.

SECTION "B" (30 Marks)
(Microbiology)

3. Short answer question (any three out of four): [3 × 5 = 15]
- a) Mention the differences between Active and Passive immunity.
 - b) Discuss the viral markers of Hepatitis B virus.
 - c) Write a short note on Mycetoma.
 - d) Discuss the laboratory diagnosis of Malaria.
4. Long answer question (any one out of two): [1 × 15 = 15]
- a) Define sterilization and disinfection. Describe the principle and working of an Autoclave. Mention its uses.
 - b) Enumerate four organisms causing lower respiratory tract infections. Describe the pathogenesis and laboratory diagnosis of pulmonary tuberculosis.



[Total No. of Pages : 2



Second B.P.Th. (2012) Examination, Winter - 2022
PATHOLOGY & MICROBIOLOGY

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 - 3) **All questions are compulsory.**
 - 4) The number to the **right** indicates full marks.
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 - 7) Use a common answerbook for **all** sections.

SECTION- A (50 Marks)
(Pathology)

1. Short answer questions (**any five** out of six):

[5×7=35]

- a) Distinguish Dystrophic from Metastatic calcification.
- b) Discuss Portal Hypertension in Cirrhosis.
- c) Discuss Laboratory investigations in Iron Deficiency Anaemia.
- d) Differentiate between benign and malignant tumours.
- e) Describe pathology of Myasthenia Gravis.
- f) Describe briefly Osteomyelitis.

2. Long answer questions (**any five** out of six):

[1×15=15]

- a) Define inflammation. Describe vascular and cellular events of inflammation. Enumerate various chemical mediators of inflammation.
- b) Define thrombosis. Describe etiopathogenesis of thrombosis. Discuss the various types of thrombi and fate of a thrombus.



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SECTION- B (30 Marks)
(Microbiology)

3. Short answer questions (**any three out of four**): [3×5=15]
- a) Write a note on Universal safety precautions.
 - b) Explain Immunoprophylaxis for poliomyelitis.
 - c) Write morphological classification of fungi with suitable examples.
 - d) Write a note on laboratory diagnosis of Malaria.
4. Long answer questions (**any one out of two**): [1×15=15]
- a) Define an antigen & an antibody. [3]
Enlist the different types of serological reactions. [3]
Define Precipitation reaction with respect to its types and applications. [9]
 - b) Describe the morphology of *Clostridium welchii* along with a labeled diagram. [4]
Describe the pathogenesis and laboratory diagnosis of Gas gangrene. [8]
Write a note on Nagler's Reaction. [3]



[Total No. of Pages : 2



Second B.P.TH. (2012) Examination, Winter - 2023 (Phase - II)
PATHOLOGY AND MICROBIOLOGY

Total Duration : 3 Hours

Total Marks : 80

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 - 3) **All** questions are **compulsory**.
 - 4) The number to the **right** indicates **full** marks.
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 - 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) Define degeneration. Give types of degeneration with suitable examples.
 - b) Define gangrene. Differentiate between dry and wet gangrene
 - c) Describe the gross and microscopic appearance of lung in lobar pneumonia.
 - d) Write a short note on Scurvy.
 - e) Enumerate the causes and risk factors of stroke (cerebrovascular accident).
 - f) Write a short note on Duchenne Muscular dystrophy.

2. Long answer question (**any one** out of two) : **[1 × 15 = 15]**
 - a) Define repair. Describe wound healing by primary union. Enumerate factors that affect wound healing.
 - b) Enumerate causes of arthritis. Discuss etiopathogenesis and pathology of Osteoarthritis.

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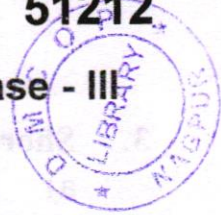
Section "B" (30 Marks)

(Microbiology)

3. Short answer question (**any three** out of four) : [3 × 5 = 15]
- a) Laboratory diagnosis of viral infection
 - b) Universal safety precaution.
 - c) Innate Immunity.
 - d) Laboratory diagnosis of Giardiasis infection.
4. Long answer question (**any one** out of two) : [1 × 15 = 15]
- a) Classify mycobacteria. Discuss laboratory diagnosis of pulmonary tuberculosis.
 - b) Describe the morphology of *Candida albicans*. Describe the laboratory diagnosis of Candidosis.



Second B.P.T.H. (2012) Examination, Winter - 2024 Phase - III
PATHOLOGY AND MICRO BIOLOGY



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Total Marks : 80

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 - 7) Use a common answerbook for all Sections.

SECTION - A (50 Marks)

(Pathology)

1. **Short Answer Question (any 5 out of 6) :** [5 × 7 = 35]
 - a) What is calcification? Explain types of pathologic calcification with appropriate examples
 - b) Explain Primary tuberculosis of Lung.
 - c) Differentiate between benign and malignant Neoplasms.
 - d) Explain pathogenesis of Rheumatoid Arthritis.
 - e) Discuss etiology, morphology and complications of peptic ulcer.
 - f) What is regeneration? Explain mechanism of wound healing by secondary intention. What can be the complications of wound healing?

2. **Long Answer Question (any 1 out of 2) :** [1 × 15 = 15]
 - a) Define Inflammation. Describe mechanism, cellular and vascular events of Acute inflammation.
 - b) Discuss etiopathogenesis gross and microscopic features of Myocardial Infarction.

SECTION -B (30 Marks)**(Microbiology)**

- 3. Short Answer questions (any 3 out of 4) : [3 × 5 = 15]**
- Enumerate the antigen and antibody reactions. Discuss applications of agglutination reactions in diagnostic Microbiology.
 - Describe immunoprophylaxis of rabies.
 - Discuss the general principles of biomedical waste management at a hospital.
 - Enumerate fungi causing opportunistic fungal infections and discuss the laboratory diagnosis of any one of them.
- 4. Long Answer Questions (any 1 out of 2) : [1 × 15 = 15]**
- Enumerate two bacteria causing meningitis. Discuss the pathogenesis and laboratory diagnosis of Streptococcal pneumoniae.
 - Discuss the intestinal and extra intestinal clinical features and laboratory diagnosis of Entamoeba histolytica.

