

Second B.H.M.S. (New) Examination, Summer - 2021
PATHOLOGY AND MICROBIOLOGY

Total Duration : 3 Hours

Total Marks : 100

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 answer book for all Sections.

1. Write short answer (any ten out of fifteen) : **[10 × 2 = 20]**

- a) Virchow's triad
- b) Modes of spread of Malignancy
- c) Types of Exudate
- d) Features of Nephrotic Syndrome
- e) Definition and types of Angina
- f) Pathological features of Ulcerative colitis
- g) Erythrocyte Sedimentation Rate
- h) Hazards of Mismatched Transfusion
- i) Bacterial spores
- j) Name 4 bacteria which causes Food poisoning
- k) Organs of Locomotion in Bacteria
- l) Pathology of Dracunculus Medinensis
- m) NIH Swab
- n) Name 4 Parasites causing Anaemia
- o) Spread of HIV virus

2. Write short answer (**any four** out of six) : **[$4 \times 5 = 20$]**

- a) Cardiac Oedema
- b) Dry Gangrene
- c) Morphology of Vibrio Cholera
- d) Widal test
- e) Pathology of Ascaris
- f) Difference between Bacillary and Amoebic Dysentery

3. Write short answer (**any four** out of six) **[$4 \times 5 = 20$]**

- a) Complications of Diabetes Mellitus
- b) Aetiopathogenesis of Emphysema
- c) Haemoglobinopathies
- d) Blood picture of Chronic Myeloid Leukaemia
- e) Miasmatic approach of Graves disease
- f) Adenovirus

4. Long answer question (**any two** out of four) : **[$2 \times 10 = 20$]**

- a) Define Infection. Classify and describe various types of Infection
- b) Describe Neisseria, its Pathogenesis and Lab Diagnosis
- c) Describe Morphology, pathogenesis and Labdiagnosis of Wuchereria Bancrofti
- d) Describe Ancylostoma, its Life cycle, pathology and lab diagnosis

Long answer question (any one from Q. No. 5, 6 and 7)

5. Describe Aetiology, pathological features, clinical features and Laboratory diagnosis of Pneumonia **[$1 \times 20 = 20$]**

6. Discuss Salmonella, its morphology, culture characteristics, pathology and Laboratory diagnosis **[$1 \times 20 = 20$]**

7. Discuss Taenia saginata, its morphology, Life Cycle, pathology and Laboratory diagnosis **[$1 \times 20 = 20$]**



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Second B.H.M.S. (2015) Examination, Summer - 2021
PATHOLOGY & BACTERIOLOGY & PARASITOLOGY - I

Total Duration : 3 Hours

Total Marks : 100

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

1. Write short answer (any ten out of fifteen) : **[10 × 2 = 20]**

- a) Pathologic hyperplasia.
- b) Enumerate mediators of inflammation.
- c) 4 differentiating points between transudate and exudate.
- d) Aetiology of Fat embolism.
- e) Give types of Amyloidosis.
- f) Give 2 types of physical carcinogenesis with examples.
- g) Antibody.
- h) What are 2 clinical syndromes as a result of Protein Energy Malnutrition?
- i) Give 4 differences regarding cerebrospinal fluid in bacterial and viral meningitis.

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- j) Enumerate diagnostic tests of Diabetes mellitus.
- k) Give morphologic classification of cirrhosis.
- l) Give 4 differentiating points between benign and malignant gastric ulcers.
- m) Angina.
- n) Meningitis.
- o) Enumerate 4 COPDs.

2. Write short answer (any four out of six) : $[4 \times 5 = 20]$

- a) Wound healing.
- b) CVC liver.
- c) Differentiate between benign and malignant neoplasm.
- d) Coagulative necrosis with examples.
- e) Indications and Procedure of bone marrow aspiration.
- f) Pulmonary Function Test.

3. Write short answer (any four out of six) : $[4 \times 5 = 20]$

- a) Splenomegaly.
- b) Aetiology and types of pneumonia.
- c) Distinguishing features of Crohn's disease and Ulcerative colitis.
- d) Laboratory diagnosis of Myocardial Infarction.
- e) Proteinuria.
- f) Aetiology and Blood picture of B12 deficiency anaemia.

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4. Long answer question (any two out of four) : [2 × 10 = 20]

- a) Discuss in detail aetiopathogenesis of thrombosis.
- b) Write a detailed note on Anaphylaxis.
- c) Define Jaundice. Enumerate its types. How will you differentiate between different types of Jaundice.
- d) Define goitre. Discuss causes, clinical features & laboratory diagnosis of Hypothyroidism.

Long answer question (any one from Q.No. 5, 6 and 7) :

5. Write differentiating features between nephrotic and nephritic oedema. Enumerate causes of both. Discuss pathogenesis of acute post-streptococcal proliferative glomerulonephritis. [1 × 20 = 20]

6. Define chronic granulomatous inflammation. Give 4 causes. Discuss morphological changes and complications of pulmonary tuberculosis. [1 × 20 = 20]

7. What are the types of immune response? Discuss the process of cellular and humoral immune response in detail. [1 × 20 = 20]



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Second B.H.M.S. (2015) Examination, Summer - 2021
PATHOLOGY & BACTERIOLOGY & PARASITOLOGY - II

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- 7) Use a common answerbook for all sections.

1. Write short answer (**any ten** out of fifteen) : **[10 × 2 = 20]**

- a) Enriched media with two examples.
- b) Bacterial cell wall.
- c) Cholera.
- d) Write two Staining methods of bacteria.
- e) Write four Gram positive bacteria.
- f) Giardiasis.
- g) Relation between Host & Parasite.
- h) 4 Parasites causing Anaemia.
- i) Brood capsule.

- j) Stool examination of acute amoebic dysentery.
- k) Laboratory Test for Enterobius Vermicularis.
- l) 4 RNA viruses.
- m) Rota Virus.
- n) Properties of Virus.
- o) Write Two Cutaneous diseases by fungal infection.

2. Write short answer (any four out of six) : [4 × 5 = 20]

- a) Pathology and Lab diagnosis of Neisseria Meningitis.
- b) Pathology of Clostridium.
- c) Pathology of Wuchereria Bancrofti.
- d) Life cycle of Plasmodium Vivax.
- e) General Characteristic of virus.
- f) Difference between Exotoxins and Endotoxins.

3. Write short answer (any four out of six) : [4 × 5 = 20]

- a) VDRL test.
- b) Bacterial Motility.
- c) Characteristic of Nematodes.
- d) Methods & Sources of Infection.
- e) Dengue Virus.
- f) Superficial Mycoses.

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4. Long answer question (any two out of four) : $[2 \times 10 = 20]$

- a) Write in details about Sterilization Methods & disinfection with their merits & demerits.
- b) Define Bacterial cultural media. Describe different type of cultural media with suitable example.
- c) Describe HIV morphology, spread, pathogenesis and lab.diagnosis.
- d) Describe morphology, life cycle, pathogenesis, lab.diagnosis of Hookworm.

Long answer question (any one from Q.No. 5, 6 and 7) :

5. Describe Morphology, life cycle, pathogencity, lab.diagnosis of mycobacterium tuberculi with add notes on Tuberculosis. $[1 \times 20 = 20]$

6. Describe Morphology, Cultural characteristic, toxins, lessions, lab.diagnosis of E.Coli. $[1 \times 20 = 20]$

7. Describe Adenoviruses Morphology, Resistance, Classification, Pathogenesis, Lab.diagnosis. $[1 \times 20 = 20]$

