

Second BHMS (2015) Examination, Summer (Phase - III All Other  
Remaining UG/PG Courses) - 2020

**PATHOLOGY & BACTERIOLOGY & PARASITOLOGY - I**

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.

1. Write short answer (**any ten** out of fifteen) : **[10 × 2 = 20]**
- a) Give 4 characteristic features of wet gangrene.
  - b) Give 4 differences between transudate & exudate.
  - c) Give 2 causes of pathologic hyperplasia.
  - d) Define granuloma.
  - e) Define shock & enumerate 3 aetiological types of shock.
  - f) Give 2 examples of agglutination type of antigen-antibody reactions.
  - g) Define metastasis & name any 2 routes of metastasis of tumours.
  - h) Give 4 causes of leukocytosis.
  - i) Enumerate 4 causes for proteinuria.
  - j) Enumerate 4 aetiological factors for chronic peptic ulcers.

- k) Give 2 aetiological factors for cirrhosis.
- l) Give 2 aetiological factors for simple goitre.
- m) Enumerate 4 risk factors for ischaemic heart disease.
- n) Define gout.
- o) Fungal infections of Lung.

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

- a) Fate of thrombus.
- b) Liquefactive necrosis.
- c) Kwashiorkor.
- d) Pathogenesis of chemical carcinogenesis.
- e) Immunological test for pregnancy on urine.
- f) CSF findings in pyogenic meningitis.

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

- a) Laboratory diagnosis of diabetes mellitus.
- b) Causes of hydronephrosis.
- c) Aetiopathogenesis of bronchial asthma.
- d) Risk factors for CA breast.
- e) PAP smear.
- f) Aetiology of B 12 deficiency anaemia.

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

- a) Define oedema. Explain the mechanisms behind pathogenesis of oedema.
- b) Enumerate the functions of humoral & cell mediated immunity in our body.
- c) Describe aetiopathogenesis and gross & microscopic appearances of stomach in chronic gastritis.
- d) Define jaundice & give its classification. Differentiate the 3 types of jaundice on the basis of laboratory tests.

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

5. Define Shock, give its classification, etiology, pathogenesis stages of shock & add a note on Hypoxic encephalopathy. [1 × 20 = 20]
6. Define & classify immunity. Describe hypersensitivity reactions in detail. [1 × 20 = 20]
7. Define inflammation. Describe the cellular & vascular changes in acute inflammation. Explain the aetiology & morphology of lobar pneumonia. [1 × 20 = 20]



Second BHMS (2015) Examination, Summer (Phase - III All Other Remaining UG/PG Courses) - 2020

**PATHOLOGY & BACTERIOLOGY & PARASITOLOGY - II**

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.

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

- a) Write four gram positive bacteria.
- b) Write two media for culture of Vibrio cholera.
- c) Give two examples of diplococci.
- d) Name four toxins of staphylococcus.
- e) Write types of diptheria bacilli.
- f) Definitive and intermediate host of Taenia Saginata.
- g) Four characteristics of Haydatid cyst.
- h) Two parasites transmitted by oral route.
- i) Two clinical features of Enterobius vermicularis.
- j) Mantoux test

- k) Advantage of using iodine stained preparations of stool during stool examination.
- l) Name any four DNA viruses.
- m) Name methods for cultivation of viruses.
- n) Write causative agent of chicken pox, its route of transmission.
- o) Write two culture media for fungi.

2. Write short answer (**any four** out of six):

[4 × 5 = 20]

- a) Pathogenicity of *Mycobacterium tuberculosis*.
- b) Lab diagnosis of *Corynebacterium diphtheriae*.
- c) Amoebic liver abscess.
- d) Pathogenicity of *Ancylostoma duodenale*.
- e) Pathogenicity of Polio virus
- f) Classification of bacteria.

3. Write short answer (**any four** out of six) :

[4 × 5 = 20]

- a) VDRL test.
- b) Bacterial spore.
- c) Staining methods for parasitological studies.
- d) Difference between exotoxin and endotoxin.
- e) Herpes simplex virus.
- f) Pathogenesis of rabies virus.

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

[2 × 10 = 20]

- a) Discuss in detail physical agents of sterilization.
- b) Anaerobic culture media and Anaerobic culture methods.
- c) Life cycle and pathogenesis of *Leishmania donovani*.
- d) HIV virus.

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

5. Describe streptococcus pyogenes under following. : [1 × 20 = 20]
- Morphology.
  - Cultural characteristics.
  - Pathogenicity.
  - Lab diagnosis.
6. Write morphology, life cycle, pathogenesis and lab diagnosis of Plasmodium falciparum. [1 × 20 = 20]
7. Explain hepatitis-B virus under following : [1 × 20 = 20]
- Morphology.
  - Transmission.
  - Pathogenesis.
  - Lab diagnosis.



Second B.H.M.S. (New) Examination, Summer  
(Phase - III : All Other Remaining UG/PG Courses) - 2020  
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.

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

- a) Types of necrosis
- b) Define Dystrophic calcification.
- c) Muroid degeneration
- d) Intrinsic asthma
- e) Define Nephrotic Syndrome.
- f) Jones major criteria
- g) Packed cell volume
- h) Crystals in urine
- i) Capsuled bacteria
- j) Blood agar

- k) Negative staining
- l) Endoparasite
- m) Hydatid cyst
- n) NNN medium
- o) RNA virus

2. Write short answer (**any four** out of six) :

[4 × 5 = 20]

- a) Dry gangrene.
- b) Brown Induration of lung.
- c) Morphology and cultural characters of Meningococci.
- d) Bacterial flagellum.
- e) Life cycle of Dog tapeworm.
- f) Lab diagnosis of Amoebic dysentery.

3. Write short answer (**any four** out of six) :

[4 × 5 = 20]

- a) Chronic bronchitis.
- b) Acute glomerulonephritis.
- c) Sickle cell anemia.
- d) VDRL test.
- e) Miasmatic background of Neoplasm.
- f) Hepatitis A virus.



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

- a) Discuss in detail morphology and pathogenesis of *Salmonella typhi*.
- b) Discuss in detail the different types of culture media.
- c) Discuss in detail the morphology and life cycle of *enterobius vermicularis*.
- d) Discuss in detail the morphology and pathogenesis of *ascaris Lumbricoides*.

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

- 5. Define edema. Discuss in detail the pathogenesis of edema. Add a note on cardiac edema. **[1 × 20 = 20]**
- 6. Describe in detail the morphology and pathogenesis and lab diagnosis of *Clostridium welchii*. **[1 × 20 = 20]**
- 7. Describe in detail the morphology, life cycle and pathogenesis of *plasmodium vivax*. **[1 × 20 = 20]**

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