



**Second B.H.M.S. (2015) Examination, Summer 2018
PATHOLOGY AND BACTERIOLOGY AND 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) What is Phagocytosis? Name three steps in Phagocytosis.
 - B) Enlist different Endogenous Pigments appear in Pigment disorders.
 - C) List 3 major types of shock with suitable examples.
 - D) Complications of wound healing.
 - E) Types of Hyaline change with it's examples.
 - F) Features of anaplasia.
 - G) Define Herd Immunity.
 - H) Define Kwashiorkar & Write microscopic changes in liver.
 - I) Name four Haemoglobinopathies.
 - J) Four risk factors of Gall stones.
 - K) Serum markers of Acute pancreatitis.
 - L) Enlist etiological factors of Peptic ulcers.
 - M) Serum markers of Ischaemic Heart Disease.
 - N) Enlist complications of Fracture healing.
 - O) Define Emphysema with classification of true Emphysema .

04211 A



2. Write short answer (**any four** out of six) : (4×5=20)
- a) Define Granuloma with its composition.
 - b) Difference between Transudate and Exudate.
 - c) Nutmeg Liver.
 - d) Definition and Types of Emboli.
 - e) Indications and contraindications of Bone marrow aspiration.
 - f) Proteinuria.

3. Write short answer (**any four** out of six) : (4×5=20)
- a) Bronchial asthma.
 - b) Leiomyoma of uterus.
 - c) Discuss in short about Acute renal Failure.
 - d) C.S.F. changes in Pyogenic Meningitis.
 - e) Importance of sputum Examination.
 - f) Megaloblastic anemia.

4. Long answer question (**any two** out of four) : (2×10=20)
- a) Define and classify Immunity. Explain the different types of Immunity with Examples.
 - b) Define Thrombosis. Explain Virchow's Triad of Thrombosis. Add a note on Fate of Thrombus.
 - c) Cirrhosis of liver.
 - d) Discuss pathogenesis and morphology of Rheumatic heart disease.

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

5. Long answer question : (1×20=20)
Define Pneumonia with its classification. Pathogenesis of Lobar pneumonia. Add a note on complications of Lobar Pneumonia.
6. Long answer question : (1×20=20)
Define and classify Arteriosclerosis. Discuss the etiology and pathogenesis of Atherosclerosis. Mention complications of the same.
7. Long answer question : (1×20=20)
Enumerate Antigen Antibody reactions. Describe the principle and clinical applications of agglutination reactions with suitable examples.

Second B.H.M.S. (2015) Examination, Summer 2018
PATHOLOGY & BACTERIOLOGY & PARASITOLOGY – II

Total Duration : 3 Hours

Total Marks : 100

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 - 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) : (10x2=20)
- A) Mention types of Staphylococcus.
 - B) Name the Toxins of Streptococcus.
 - C) Morphology of Neisseria Meningococcus.
 - D) Name two sporing bacteria.
 - E) Mention principal of Gram's staining.
 - F) Write the types of female Nematodes.
 - G) Contents of Hydatid cyst.
 - H) Define Cysticercus cellulase.
 - I) Which are the types of Plasmodium ?
 - J) What are the types of Agglutination in Widal test ?
 - K) Charcot Leyden crystals.
 - L) Name two malignancies associated with HIV infection.

04211 B

-2-



- M) What are the types of Hepatitis virus ?
- N) Morphology of Rabies virus.
- O) Name Two cultural media used in fungal infection.

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

(4x5=20)

- a) Morphology and cultural characteristics of Pneumococcus.
- b) Pathogenicity of *Cl.tetani*.
- c) Differentiate between Amoebic and Bacillary dysentery.
- d) Morphology of *Leishmania donovani*.
- e) Pathogenesis of Hepatitis-B virus.
- f) MacConley agar.

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

(4x5=20)

- a) VDRL test.
- b) Structure of Flagellum.
- c) Classification of Parasites.
- d) Methods of Transmission of infection.
- e) Morphology of Influenza virus.
- f) Candidiosis.

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

(2x10=20)

- a) Define sterilisation. Mention physical agents of sterilisation. Describe Hot Air Oven.
- b) Define Cultural media. Describe in detail classification of special cultural media.
- c) Describe in detail the pathogenesis and lab. diagnosis of Herpes Simplex.
- d) Describe in detail the Life cycle of *Plasmodium Vivax*.



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

5. Long answer question : (1x20=20)

Describe in detail Morphology, cultural characteristics, pathogenesis and Lab. diagnosis of Mycobacterium Tuberculosis.

6. Long answer question : (1x20=20)

Describe in detail the Morphology, Life cycle, pathogenesis and Lab. diagnosis of Ascaris Lumbricoides.

7. Long answer question : (1x20=20)

Describe in detail the structure, pathogenesis and lab. diagnosis of HIV virus.



42

04601

**Second BHMS (New) Examination, Summer 2018
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) Define Infarction. Write 2 points of difference between red and white infarction.
 - b) Define Embolism and give 4 types of Embolism.
 - c) Define Indirect acting Chemical Carcinogen with 2 examples.
 - d) Define chronic bronchitis and enumerate it types.
 - e) Give 4 etiological factors for Peptic Ulcer.
 - f) Define Angina Pectoris. Mention types.
 - g) Give any four conditions where the specific gravity of urine is increased.
 - h) Causes of Leucocytosis.
 - i) Write features of Autoclave.
 - j) Enumerate various toxins produce by staphylococcus.
 - k) Give diagnostic value of ASO titre and 2 pathological conditions where we use ASO titre as diagnostic cliteria.
 - l) Give 2 examples of vector transmitted diseases.
 - m) Loeffler's syndrome.
 - n) Definitive and Intermediate Host of Taenia Solium & Taenia Saginata.
 - o) Give structure of Hepatitis A virus.

P.T.O.

04601



2. Write short answer (**any four** out of six) : (4×5=20)
- Degeneration.
 - Difference between Exudate and Transudate.
 - Tyndallization.
 - Leporammin test.
 - Life cycle and Pathology of *Enterobius vermicularis*.
 - Pathology of *Ascaris lumbricoides*.

3. Write short answer (**any four** out of six) : (4×5=20)
- CSF findings of acute purulent meningitis.
 - Nephrotic syndrome.
 - Define Anemia and Explain megaloblastic anemia.
 - Causes and Lab investigation for Proteinuria.
 - Miasmatic background of Asthma.
 - HIV virus.

4. Long answer question (**any two** out of four) : (2×10=20)
- Give pathogenicity and lab diagnosis of *Pneumococcus*.
 - Write pathogenicity and lab diagnosis of *Clostridium Tetani*.
 - Give life cycle of *Entamoeba histolytica* and add a note on Amoebic liver abscess.
 - Give morphology, Life cycle, Pathology of *Dracontulus Medicinenses*.

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

5. Long answer question. (1×20=20)

Define and classify Neoplasia. Explain Anaplasia and Metastasis with note on carcinoma in situ.

6. Long answer question : (1×20=20)

Describe morphology, Life cycle, Pathogenicity and Lab diagnosis of *trichuris trichiura*.

7. Long answer question : (1×20=20)

Describe Morphology, Antigenic structure, Pathogenicity and lab diagnosis of *salmonella typhi*.