

04211 A



Second B.H.M.S. (2015) Examination, Summer 2017
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) : (10x2=20)
- A) What is apoptosis ?
 - B) Coagulative necrosis.
 - C) Define Inflammation. Write its types.
 - D) Hyperaemia.
 - E) Enumerate etiological factors for Ischaemia.
 - F) Teratoma.
 - G) Herd Immunity.
 - H) Causes of Iron deficiency anaemia.
 - I) Rh Incompatibility.
 - J) Glycosuria.
 - K) Mention any two etiological factors for Cirrhosis of Liver.
 - L) Enumerate the ulcers in GIT and write aetiology of Peptic ulcer.
 - M) Pathological changes in Mitral stenosis.
 - N) Osteoclastoma.
 - O) Name any two causes of chronic bronchitis.

ulcerative
endocarditis
ulcerative
colitis

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

(4×5=20)

- a) Difference between Dry gangrene and Wet gangrene.
- b) Pathogenesis and consequences of Fat embolism.
- c) Chemical mediators of Acute Inflammation.
- d) Etiology and pathogenesis of Fatty liver.
- e) Complications of Blood transfusion.
- f) Significance of CSF examination.

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

(4×5=20)

- a) Carcinoma of Cervix.
- b) Fibroadenoma of breast.
- c) Ghon's complex.
- d) Nephrotic syndrome.
- e) Investigations for UTI.
- f) Megaloblastic Anaemia.

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

(2×10=20)

- a) What is Amyloidosis and describe aetiopathogenesis of different type of amyloidosis ?
- b) Define Neoplasm. Write its causes. Explain in detail spread of malignant tumour.
- c) Discuss aetiology, pathological changes and lab diagnosis of acute myocardial infarction.
- d) Define Pneumonia. Discuss etiology and pathology of Lobar pneumonia.

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

5. Long answer question :

(1×20=20)

Define oedema and enumerate its types and write pathogenesis of Cardiac oedema and renal oedema.

6. Long answer question :

(1×20=20)

Define Shock. Its main type, stages of shock and pathological changes with respect to lung, liver.

7. Long answer question :

(1×20=20)

Define immunity. Mention difference between active and passive immunity. Describe various hypersensitivity reaction in brief.



Second B.H.M.S. (2015) Examination, Summer 2017
PATHOLOGY AND BACTERIOLOGY AND PARASITOLOGY - II

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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.

Step to copy →

1. Write short answer (any ten out of fifteen) : 2M (10x2=20)

- A) Give 4 examples of Gram negative bacilli.
- B) Give 4 toxins of staphylococci.
- C) Name 2 media for Vibrio cholerae.
- D) Describe colonies of human type of Mycobacterium tuberculosis on Lowenstein Jenson medium.

E) What is pseudomembrane of Corynebacterium diphtheriae made up of? → tough & leathery

Lesman's donor of malaria Plasmodium vivax Plasmodium falciparum Plasmodium

- F) Name 4 parasites producing anaemia
- G) Mention 2 parasitic infections in which Man acts as an intermediate host.
- H) Enumerate 4 parasites transmitted through contaminated food.
- I) Name methods of reproduction of Plasmodium.
- J) Enumerate serological tests of diagnosis of Syphilis.
- K) Enumerate 4 parasites which can be detected in stool examination.
- L) Name 4 DNA viruses.
- M) Name 2 diseases caused by Varicella zoster virus.
- N) Write 2 differences between viruses and bacteria.
- O) Enumerate 3 dermatophytes.

04211 B



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

- a) Antistreptolysin O Titre
- b) Virulence factors of Clostridium tetani
- c) Trichomonas vaginalis
- d) Hydatid cyst
- e) Human influenza virus
- f) Bacterial spore.

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

- a) Peripheral blood smear examination in Plasmodium highlighting thick and thin smears.
- b) Bacterial growth curve.
- c) Enumerate and describe different types of hosts in parasitic infections with examples.
- d) Different routes of infection.
- e) Basic structure of viruses.
- f) Laboratory diagnosis of Hepatitis B Virus.

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

- a) What are the methods of sterilisation by moist heat? Discuss sterilisation by moist heat under pressure in detail.
- b) Define and classify medias mention advantages and disadvantages of each over other and examples of each types with its use.
- c) Write a note on morphology of various developmental forms of Ancylostoma duodenale and discuss its pathogenicity in detail.
- d) Describe morphology and life cycle of Entamoeba histolytica.

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

5. Long answer question : (1×20=20)

Write in detail about the a case of pulmonary tuberculosis with respect to morphology, pathogenesis and laboratory diagnosis.

6. Long answer question : (1×20=20)

Discuss morphology, life cycle, pathogenicity and laboratory diagnosis of Ascaris lumbricoides.

7. Long answer question : (1×20=20)

Discuss in detail morphology, pathogenesis and laboratory diagnosis of HIV.



Second B.H.M.S. (New) Examination, Summer 2017
PATHOLOGY AND MICROBIOLOGY

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.
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1. Write short answer (**any ten** out of fifteen) :

(10×2=20)

- a) Types of emboli.
- b) Cardinal signs of inflammation.
- c) Define hypertrophy.
- d) Types of renal oedema.
- e) Define atherosclerosis.
- f) 4 causes of cirrhosis of liver.
- g) Define aplastic anemia.
- h) Causes of leucocytosis.
- i) Define sterilization.
- j) Name flagellated bacteria.
- k) Define acid fast staining.
- l) Larval form of taenia solium.
- m) Hosts of leishmania donovani.
- n) Hydatid fluid composition.
- o) DNA virus.

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

(4×5=20)

- a) Metaplasia
- b) Caseous necrosis
- c) Acid fast staining
- d) Define bacterial spore
- e) Morphology of ascaris lumbricoides
- f) Lab diagnosis of malaria.

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

(4×5=20)

- a) Bronchial asthma in short.
- b) Fatty liver causes and diagnosis.
- c) Write widal test in detail.
- d) Write megaloblastic anemia in detail.
- e) Miasmatic background of inflammation.
- f) Pathogenesis of Hepatitis B virus.

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

(2×10=20)

- a) Discuss in detail the morphology and pathogenesis of meningococci.
- b) Discuss in detail the physical methods of sterilization.
- c) Morphology of entamoeba histolytica.
- d) Life cycle of leishmania donovani.

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

5. Long answer question :

(1×20=20)

Define inflammation. Discuss in detail the vascular and cellular events of inflammation.

6. Long answer question :

(1×20=20)

Discuss in detail the aetiology, pathogenesis and lab diagnosis of myocardial infraction.

7. Long answer question :

(1×20=20)

Discribe in detail the morphology, pathogenesis and lab diagnosis of vibrio choleri.
