



Name :

Roll No. :

Invigilator's Signature :

CS/B.OPTM/SEM-3/BO-303/2010-11

2010-11

MEDICAL MICROBIOLOGY & PATHOLOGY

Time Allotted : 3 Hours

Full Marks : 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

GROUP – A

(Multiple Choice Type Questions)

1. Choose the correct alternatives for any *ten* of the following :

10 × 1 = 10

- i) Bacteriostatic agents
 - a) Prevent bacterial growth
 - b) Kill the bacteria
 - c) Prevent the multiplication of bacteria
 - d) Kill only pathogenic bacteria.

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- vii) All are gram positive bacteria, *except*
- a) streptococcus b) staphylococcus
c) bacillus d) neisseria.
- viii) Facultative bacteria
- a) do not tolerate oxygen
b) require a low level of oxygen to grow
c) can be grown both aerobically and anaerobically
d) cannot be cultured in the laboratory.
- ix) A chemical mediator of inflammation is
- a) Actin b) Myosin
c) Histamine d) None of these.
- x) Transplantation of tissue between genetically dissimilar hosts is called
- a) Allografts b) Autografts
c) Isografts d) Xenografts.
- xi) Sarcoma is the cancer of
- a) lymph node tumour
b) mesenchymal tumour
c) epithelial tumour
d) mixed tumour.

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GROUP – B

(Short Answer Type Questions)

Write short notes on *three* of the following. $3 \times 5 = 15$

2. Factors responsible for bacterial growth.
3. Names of the solid culture media and their uses.
4. Immunoglobulins.
5. Deysplasia and any four major pathological (microscopic) changes found in such cases.

GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following. $3 \times 15 = 45$

6. Explain the following : $5 + 5 + 5$
 - a) Thrombosis
 - b) Infarction
 - c) Embolism.
7.
 - a) Explain briefly the principle, theory (any *one*) and procedure of gram staining.
 - b) Discuss the factors involved in wound healing. $10 + 5$
8.
 - a) Discuss briefly, the role of thymus, spleen and bone marrow in our body's immune system.
 - b) Write a short note on Herpes simplex virus. $8 + 7$
9.
 - a) What is acute inflammation ? Mention the cardinal features of acute inflammation and describe the vascular changes in acute inflammation.
 - b) What is the difference between acute and chronic inflammations ? $12 + 3$