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*Total number of printed pages-4*

**34 (2) PATH & MICR 2.1**

**2019**

**PATHOLOGY AND MICROBIOLOGY**

*Full Marks : 40+40=80*

Time : Three hours

***The figures in the margin indicate  
full marks for the questions.***

**FIRST HALF**

***(Pathology)***

Marks : 40

***Answer any one out of two :***                      1×10=10

1. Define Leukaemia. Mention its classification and clinical features. Describe microscopic pictures of chronic myeloid leukaemia.

**Or**

2. Define Inflammation. Mention the signs, types of inflammation. Describe Pathology of Acute inflammation.

*Contd.*

3. Answer **any four** out of **five** :  $5 \times 4 = 20$

- (a) Describe Pathology of different stages of cirrhosis of liver.
- (b) Define shock and mention its classification.
- (c) Describe Squamous cell carcinoma of skin.
- (d) Define Atrophy and Aplasia.
- (e) Mention the structure of Immune system.

4. Answer **all** questions :  $5 \times 2 = 10$

- (a) Apoptosis
- (b) Complication of Diabetes Mellitus
- (c) Tubercular Meningitis
- (d) Precancerous lesions.
- (e) Prevention of HIV.

## SECOND HALF

### (Microbiology)

Marks : 40

1. Answer the following :  $2 \times 5 = 10$

- (a) Define :
  - (i) Pandemic
  - (ii) Hapten.
- (b) Why do you add *KOH* for preparation of fungal smear? Give reasons.
- (c) Name the malarial parasites.
- (d) Write **any one** method used for diagnosis of viral infection in laboratory.
- (e) Write a short note on Botulism.

2. Answer **any four** of the following :

$5 \times 4 = 20$

- (a) Write a short note on Bacterial Growth Curve.
- (b) What is Cell mediated immune response? Discuss its mechanism.

- (c) What is Mycoses? Write a short note on Superficial mycoses.
  - (d) Discuss pathogenicity of *Pseudomonas aeruginosa*.
  - (e) Write a note on structure of virus.
3. Answer **any one** of the following: 10
- (a) Discuss morphology, pathogenicity, lab. diagnosis and treatment of *Staphylococcus aureus*.
  - (b) Discuss pathogenesis and pathology of viral infections.