

U.G. 5th Semester Examination - 2020

FOOD & NUTRITION

[HONOURS]

Course Code : F&N-H-CC-T-12

Full Marks : 40

Time : 2½ Hours

The figures in the right-hand margin indicate marks.

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

1. Answer any **five** questions: 2×5=10
 - a) What is pathogenicity?
 - b) What is Sterilization?
 - c) Name one common antibiotic of 'macrolide' group.
 - d) What is F-factor in bacterial genetics?
 - e) What are mesophilic bacteria?
 - f) What do you mean by 'Commensal bacteria'?
 - g) Name two clostridia species responsible for gas gangrene and botulism.
 - h) What do you understand by 'virus type H1N1'?

[Turn over]

2. Answer any **two** questions: 5×2=10
 - a) What are the symptoms of Hepatitis B infection? Mention few steps for prevention of this infection in urban and rural areas. 2+3
 - b) Draw a bacterial 'growth curve' and point out the different phases. What is the Special Character of MacConkey's Medium? 1+2+2
 - c) What is 'antibiotic sensitivity' test? Discuss the pathogenicity and prevention of HIV infection. 2+1+2
 - d) What is the morphological feature and special character of *Helicobacter pylori*? Which organ is affected due to the infection of *H. pylori*? 2+2+1
3. Answer any **two** questions from the following: 10×2=20
 - a) What is MDR-TB? Mention four important drugs for treatment of pulmonary tuberculosis. Discuss the diagnostic methods of tuberculosis. 3+2+5
 - b) How antibiotics are classified in different ways? Why drug resistant bacteria are problem for the society? Name two antiviral drugs for treatment of Herpes and AIDS. 5+3+2

- c) Discuss the procedure for isolation and identification of bacteria from rotten food sample. Name one aerobic bacterium responsible for food-borne gastroenteritis in rural India.

8+2

- d) Write briefly on (any **two**): 5+5

i) Prion disease

ii) Agar-agar

iii) Opportunistic infection
