

PG CBCS
M.Sc. Semester-II Examination, 2022
NUTRITION AND DIETETICS
 PAPER: NUD 203
(FOOD MICROBIOLOGY AND NUTRITIONAL ANTHROPOLOGY)
Full Marks: 40 **Time: 2 Hours**

Write the answer for each unit in separate sheet

The figures in the right-hand margin indicate full marks.
 Candidates are required to give their answers in their own words as far as practicable.

UNIT: 17

FOOD MICROBIOLOGY AND NUTRITIONAL ANTHROPOLOGY

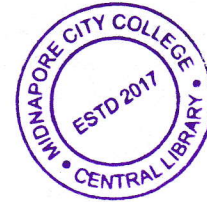
Marks: 20

GROUP-A

1. Answer any two questions:

2×2=4

- a) Write the role of starter culture.
- b) Give two examples of fruit spoilage and its causative agent.
- c) Give two physiological impacts of temperature on microbial spoilage.
- d) Why vegetables are attacked by the microorganisms?



GROUP-B

2. Answer any two questions:

2×4=8

- a) State the role of probiotics on health maintenance.
- b) How fruits and vegetables are spoiled by the microorganisms?
- c) How do microprisms neutralize the oxidative damage?
- d) How are cereals infected by several fungi during their harvest and storage?

GROUP-C

3. Answer any one question:

1×8=8

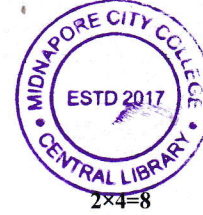
- a) Write the principle of high temperature and high salt on food preservation. How redox potential influences microbes present in food? (5+8)
- b) How temperature affects fish spoilage? How is the temperature dependent preservation system utilized in milk preservation? 'pH is an important parameter of milk spoilage.' – Explain it. (2+3+3)

(Turn Over)

(2)

UNIT: 18**NUTRITIONAL ANTHROPOLOGY****Marks: 20****GROUP-A****1. Answer any two questions:****2×2=4**

- a) What are the differences between stunting and wasting?
- b) Mention the landmark f supra-iliac in skin fold management.
- c) Mention the cut-off values of PBF.
- d) What are the disadvantages of anthropometric measurements?

**GROUP-B****2. Answer any two questions:****2×4=8**

- a) Write the cut-off values of BMI for determining nutritional status of adults. What are the limitations of BMI?
- b) What do you mean by weight for age? Classify weight for age according to Gomez.
- c) Mention different indicators for detection of PEM.
- d) What is BMR? Write Harris-Benedict equation to determine BMR of males and females.

GROUP-C**3. Answer any one question:****1×8=8**

- a) Describe the measurement procedure of skin fold thickness. How can you determine PBF directly from skin fold measurements? Write the Siri's equation in determining PBF from body density. (3+4+1)
- b) Write the advantages of anthropometric method for nutrition status assessment. Write the importance of MUAC and chest circumference for assessing nutritional status of a child. (4+2+2)
