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M.Phil/2nd Sem/LSC/19

2019

M. Phil 2nd Semester Examination

LIFE SCIENCE

Paper : LSC-121

Full Marks : 40

Time : 2 Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.
Illustrate the answers wherever necessary.*

(Non Communicable Disease and Life Style)

Group - A

(Marks : 8)

1. Answer any *four* questions from the following : 4×2
 - a) What is classical phenylketonuria ?
 - b) What are the major objectives of MDMP ?
 - c) Write any two differences between monitoring and evaluation of nutrition status.
 - d) State the difference between invasion and dispersal.
 - e) What is post-traumatic stress disorder ?
 - f) What is Leptin ?

[Turn Over]

Group - B

(Marks : 16)

2. Answer any *four* questions from the following : 4×4
- a) Write in brief about the strategies adopted for the health care upgradation at primary and secondary tiers of health care system especially in our state. 4
 - b) Write the steps adopted for designing the health promotion programme. 4
 - c) How is yoga therapy beneficial for diabetic patients ? 4
 - d) Discuss the social factors of drug abuse. 4
 - e) Discuss shortly the relationship between angiogenesis and cancer. 4
 - f) Discuss the symptoms of allergies and mention the dietary advice in this condition. 4

Group - C

(Marks : 16)

3. Answer any *two* questions from the following : 2×8
- a) Write in brief the impact of different types of project evaluation on project output. What are the criteria of project evaluation at the time of approval ? 4 + 4
 - b) Why use of cell phone causes health hazards ? "Long term use of cell phone may cause cancer" — Justify the statement. Mention some safety measures for avoiding cell phone induced health hazards. 1 + 4 + 3
 - c) How does stress affect the health ? What are the stages of general adaptation to stress ? Discuss briefly about three stress management techniques. 2 + 3 + 3
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LIFE SCIENCE

Paper : LSC-125

Full Marks : 40

Time : 2 Hours

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Illustrate the answers wherever necessary.*

(Food Security and Food Biotechnology)

Group - A

(Marks : 8)

1. Answer any *four* questions from the following : 4×2
- a) Define food induced infection and mention few causative agents in such condition. 1 + 1
- b) Mention the most common foodborne outbreak. 2
- c) What is 12 D treatment ? 2
- d) Name two vegetable fermented foods and mention the respective micro organism involved in the process. 2
- e) State the principle of canning. 2

[Turn Over]

- f) What are the importance of oriental fermented foods? 2

Group - B

(Marks : 16)

2. Answer any *four* questions from the following : 4×4

- a) What are the common artificial additives used to retard the spoilage of food ? Mention the role of Lactic acid bacteria in food preservation. 2 + 2

- b) "Milk is a favourable media for microbial growth" — Explain.

Describe the processes of milk pasteurization. 2 + 2

- c) Discuss the advantages of fermented foods. 4

- d) Explain the following terms —

(i) HACCP

(ii) GRAS 2 + 2

- e) Discuss different factors influencing spoilage of foods. 4

- f) What are indicator organisms ? Why coliform are used as indicator organism in assessing the water quality. 2 + 2

Group - C

(Marks : 16)

3. Answer any *two* questions from the following : 2×8

- a) Describe the different classes of bacteriocins. 'Bacteriocins are the effective agent for food preservation' — Justify the statement. 5 + 3

- b) Describe the factors affecting the growth of microbes in food. What are the possible procedures of salting of food? What do you mean by starter culture and state its importance. 4 + 2 + 2
- c) What are probiotics ? Discuss the properties of a micro-organism which are considered to be essential for using it as a probiotic. What are the limitations in using probiotics. 2 + 4 + 2
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