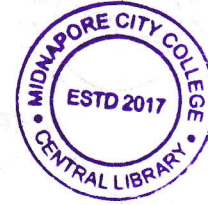## 2023

AGS 4th Semester Examination

B.Sc. Hons. in Agriculture

Farming System and Sustainable Agriculture

PAPER — 407

Full Marks : 50

Time : 2 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.

Illustrate the answers wherever necessary.

Answer **all** questions.

1. Answer *any* **five** questions from the following :
   2×5=10

   (a) Define LEIA and HEIA.

   (b) Define mixed farming and mixed cropping.

(2)

(c) Define ecofarming and conventional agriculture.

(d) Define farming system and cropping system.

(e) What is contour farming?

(f) Define cropping pattern and LEISA.

(g) What are the environmental conditions that affect farming?

(h) Define integrated farming system with suitable example.

2. Answer *any* **four** questions from the following : 5×4=20

(a) What are the tools required for determining production and efficiencies in cropping and farming system?

(b) How can sustainable agriculture be adapted by replacing conventional agriculture? Write down the mitigation strategies.

(Continued)

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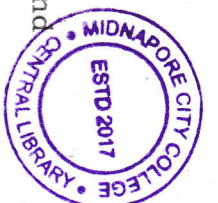
(3)

(c) Describe the model of IFS in a hot and humid region.

(d) Discuss briefly about the scopes and importance of farming system.

(e) Write a short account on the process of maintaining farming system.

(f) How can conservation be done through agriculture?

3. Answer *any* **two** questions from the following : 10×2=20

(a) How do resource cycling and flow of energy in different environments and farming systems take place? What are the factors affecting types of farming system? 6+4=10

(b) What are the strategies of conventional agriculture? Give a note on it. Write down the concept of farming system. 6+4=10

(Turn Over)

(c) Briefly state about the site specific development of IFS model for different agro-climatic zones. Mention few importances of allied enterprises.   6+4=10

(d) Write any six advantages of organic farming. What are the objectives of IFS? Classify farming system according to the size of farm.   3+3+4=10

★ ★ ★