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End Semester Examination, December 2024
B.Sc.(Hons.) Agriculture – 3rd Semester
AGRICULTURE INFORMATICS (SAAG220A)

Time: 2.5 hrs.

Max Marks: 30

PART-A

Note:

- 1) Question No. 1 under Section-A is compulsory.**
- 2) Attempt any four from Q. No. 2 to Q. No. 6 under Section-B**
- 3) Attempt any two from Q. No. 7 to Q. No.9 under Section-C**

Marks are indicated against each question.

Section-A (Compulsory)

1. (a) Fill in the blanks with appropriate words:

[CO-1] [L-1] 2

- (i) The main function of a computer's motherboard is to _____.
- (ii) The unit of storage in memory is called a _____.

1. (b) Give the term used for the following:

[CO-2] [L-1] 2

- (i) A technology that allows for interaction with digital information: _____
- (ii) A system that manages and organizes large amounts of data: _____

1. (c) Match the items given in Column-A with those in Column-B:

[CO-3] [L-2] 2

Column-A

Column-B

(i) XML

(a) Agricultural Data

(ii) DBMS

(b) Web Development

Section-B

2. (a) Explain the components of a computer system and their functions. [CO-1] [L-2] 1.5
2. (b) What is the difference between primary and secondary memory? [CO-1] [L-2] 1.5
3. Discuss the applications of MS Excel for data presentation and graph creation. [CO-2] [L-3] 3
4. How can databases support agricultural research and crop management? [CO-2] [L-3] 3
5. Explain how Internet and Web technologies contribute to the development of e-Agriculture. [CO-3] [L-2] 3
6. (a) What are the advantages of using HTML for creating agricultural websites? [CO-3] [L-2] 1.5
6. (b) Explain the role of XML in managing data for e-Agriculture applications. [CO-3] [L-3] 1.5

Section-C

7. What is Geospatial technology? Discuss its applications in agriculture and rural development. [CO-4] [L-2] 6
8. (a) Explain the concept of crop modelling and its importance in agricultural decision-making. [CO-4] [L-3] 3
8. (b) How can DBMS systems improve soil data collection and analysis in agriculture? [CO-4] [L-3] 3
9. Discuss how Expert Systems can be used to predict and solve agricultural problems. [CO-4] [L-3] 6

Answer Key (Part A)

1. (a) Fill in the blanks with appropriate words:

- (i) connect components
- (ii) bit

1. (b) Give the term used for the following:

- (i) Interactive Media
- (ii) Database Management System (DBMS)

1. (c) Match the items given in Column-A with those in Column-B:

- (i) XML → (b) Web Development
- (ii) DBMS → (a) Agricultural Data