

Total No. of Questions: 6

Total No. of Printed Pages: 3

Enrollment No.....



Faculty of Agriculture  
End Sem Examination Dec 2024  
AG3AE13 Agri-Informatics

Programme: B.Sc. (Hons.) Branch/Specialisation: Agriculture

Duration: 3 Hrs.

Maximum Marks: 50

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d. Assume suitable data if necessary. Notations and symbols have their usual meaning.

	Marks	BL	PO	CO	PSO
Q.1 i. Which of the following is not a type of operating system?	1	1	1	1	
(a) Real-time OS      (b) Batch OS					
(c) Management OS      (d) Time-sharing OS					
ii. What is the purpose of MS Excel in data presentation?	1	1	1	1	
(a) Editing documents					
(b) Graph creation and statistical analysis					
(c) Writing mathematical expressions					
(d) Operating the database					
iii. What does WWW stand for?	1	1	1	1	
(a) World Wide Web					
(b) World Wide Win					
(c) Web Wide World					
(d) Web Win World					
iv. Which of the following is a computer programming language?	1	2	1	1	
(a) HTML      (b) Python					
(c) CSS      (d) Both (a) and (b)					
v. Which computer model is used to calculate crop water requirements?	1	3	2	3	
(a) Soil model      (b) Plant process model					
(c) Weather model      (d) Crop model					



<b>Marking Scheme</b>			
<b>AG3AE13 - Agri- Informatics</b>			
Q.1	i) <b>(c) Management OS</b> ii) <b>(b) Graph creation and statistical analysis</b> iii) <b>(a) World Wide Web</b> iv) <b>(d) Both (a) and (b)</b> v) <b>(d) Crop model</b> vi) What is the use of automated systems in agriculture? <b>(a) Plant growth simulation</b> <b>(b) Agri-input management</b> <b>(c) Soil erosion control</b> <b>(d) Pest control</b> vii) <b>(b) Kisan Suvidha</b> viii) <b>(b) Generating agri-information</b> ix) Which IT tool is used for preparing contingent crop planning? <b>(b) Decision Support System</b> <b>(c) Weather App</b> <b>(d) GIS</b> x) <b>(d) All of the above</b>	1 1 1 1 1 1 1 1 1 1 1	
Q.2	i. What are the applications of MS Office in data interpretation? ii. Define operating systems and, <b>1M</b> Explain their types. <b>1M</b> iii. Explain the role of databases in agriculture with examples.	1 2 5	
OR	iv. Explain how statistical analysis is useful for agricultural data interpretation?	5	
Q.3	i. Define WWW and its components. ii. List standard input/output operations in programming. iii. What is e-agriculture? <b>1M</b> Describe its role in modern farming. <b>3M</b>	1 3 4	
OR	iv. Explain how ICT can transform agricultural practices.	4	
Q.4	i. Enlist computer models used to simulate plant processes. ii. Explain the application of IT for computing water and nutrient requirements in crops.	2 6	
OR	iii. Describe the use of automated systems in agriculture with examples.	6	
	Q.5	i. Mention two smartphone apps for agriculture and their uses. ii. What is geospatial technology? <b>1M</b> How does it help in generating agricultural information? <b>1M</b> iii. Describe the applications of smartphone apps in post-harvest management.	2 2 4
	OR	iv. Discuss the importance of smartphone apps in farm advisory services with examples.	4
	Q.6	Attempt any two: i. What is DSS? <b>1M</b> Explain its components and applications in agriculture. <b>3M</b> ii. Write a note on soil information systems and their role in farm decision-making. iii. Explain the steps involved in preparing contingent crop planning using IT tools.	4 4 4