

Enrollment No.....



Faculty of Agriculture
End Sem (Odd) Examination Dec-2019
AG3C019 Agri Informatics

Programme: B.Sc. (Ag.) 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.

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|-----|------|------------------------------------------------------------------------------|---|
| Q.1 | i. | What is Operating system? | 1 |
| | | (a) Collection of programs that manages hardware resources | |
| | | (b) System service provider to the application programs | |
| | | (c) Link to interface the hardware and application programs | |
| | | (d) All of these | |
| | ii. | IMS in DBMS stands for? | 1 |
| | | (a) Information Mastering system | |
| | | (b) Instruction Management System | |
| | | (c) Instruction Manipulating System | |
| | | (d) Information Management System | |
| | iii. | Computer Web Pages are written in types of language which is? | 1 |
| | | (a) Hypertext markup language (b) Multimedia | |
| | | (c) Hyperlinks (d) Assembly | |
| | iv. | What does the GUI stand for? | 1 |
| | | (a) Graphical user Interface (b) Graphical user Instructions | |
| | | (c) General user Instruction (d) Ground user interface | |
| | v. | Evapotranspiration rate is | 1 |
| | | (a) From soil to weather | |
| | | (b) From plant to weather | |
| | | (c) From soil to plant | |
| | | (d) From soil to plant and plant to weather | |
| | vi. | The Following data May be used in computer model for any crop or plantation? | 1 |
| | | (a) Leaf Area Index (b) Irrigation Level | |
| | | (c) Rainfall (d) All of these | |

P.T.O.

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- vii. Which is not a common Agriculture Mobile Application in India? **1**
 (a) AgriApp (b) IffcoKisan App
 (c) Kisan Yojna (d) Twitter
- viii. GPS is stand for: **1**
 (a) Global Positioning System
 (b) Geographical Positioning System
 (c) Global Partitioning Scope
 (d) Geographical Practical System
- ix. Which fertilizer produce acidity in soil? **1**
 (a) Ammonium sulphate (b) Sodium nitrate
 (c) Calcium sulphate (d) Calcium nitrate
- x. What is full form of GIS? **1**
 (a) Geographical Information System
 (b) Geographical Intercom System
 (c) Geographical International System
 (d) Global Information System
- Q.2 i. What do you mean by Kernel in OS? **2**
 ii. Explain in brief: application of MS-Office? **2**
 iii. What are the advantages of DBMS over traditional file-based system? **4**
- OR iv. Explain different types of DBMS and its uses in agriculture field? **4**
- Q.3 i. Explain in Brief WWW? **2**
 Attempt any two:
 ii. Explain E-Agriculture and its Example in agriculture? **3**
 iii. What is computer programming language, its types and their application in the field Agriculture? **3**
 iv. What is ICT and explain its uses in agriculture in detail? **3**
- Q.4 i. Explain some computer-controlled devices (Automated Systems) for Agri input management? **3**
 ii. Write down in detail description about some IT application for computation of water and nutrients requirement of crops? **5**
- OR iii. What are the computer Models for understanding Plant process? **5**

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- Q.5 i. Write any six-applications name related to the agriculture fields? **3**
 ii. Explain Geospatial Technology for generating valuable agriculture information with suitable examples? **5**
- OR iii. Explain in brief GPS, GIS and RS with their applications. **5**
- Q.6 i. Explain agriculture expert system and soil information system for supporting farm decision. **3**
 ii. Explain decision support system with its concept, components and applications in agriculture? **5**
- OR iii. Explain preparation of contingent crop planning using its tools? **5**

Marking Scheme
AG3C019 Agri Informatics

Q.1	i.	What is Operating system?		1
		(d) All of these		
	ii.	IMS in DBMS stands for?		1
		(d) Information Management System		
	iii.	Computer Web Pages are written in types of language which is?		1
		(a) Hypertext markup language		
	iv.	What does the GUI stand for?		1
		(a) Graphical user Interface		
	v.	Evapotranspiration rate is		1
		(d) From soil to plant and plant to weather		
	vi.	The Following data May be used in computer model for any crop or plantation?		1
		(d) All of these		
	vii.	Which is not a common Agriculture Mobile Application in India?		1
		(d)Twitter		
	viii.	GPS is stand for:		1
		(a) Global Positioning System		
	ix.	Which fertilizer produce acidity in soil?		1
		(a) Ammonium sulphate		
	x.	What is full form of GIS?		1
		(a) Geographical Information System		
Q.2	i.	Define Kernel in OS (As per answer)	2 marks	2
	ii.	Application of MS-Office		2
		For two application	2 marks	
	iii.	Introduction	1 mark	4
		Advantages	3 marks	
	OR	iv.		
		Different types of DBMS and its uses in agriculture field		4
		(1 mark*4)		
Q.3	i.	Definition	1 mark	2
		Types	1 mark	
		Attempt any two:		
	ii.	Introduction	1 mark	3
		Explanation	1 mark	
		Example	1 mark	
	iii.	Introduction	1 mark	3
		Types	1 mark	
		Application	1 mark	

	iv.	Introduction	1 mark	3
		Explanation	1 mark	
		Uses	1 mark	
Q.4	i.	3 Device of explanation	(1 mark*3)	3
	ii.	Explanation	2 marks	5
		Water	1.5 marks	
OR		Nutrient	1.5 marks	
	iii.	The computer Models for understanding Plant process		5
			(1 mark*3)	
Q.5		Introduction	1 mark	
		Explanation	1 mark	
	i.	Any Six-applications name related to the agriculture fields		3
		(For each application)	(0.5 mark*6)	
	ii.	Introduction	2 marks	5
		Definition	2 marks	
OR		Example	1 mark	
	iii.	Explanation	(1.5 marks*3)	5
		Application	0.5 mark	
Q.6	i.	Agriculture expert system and soil information system for supporting farm decision.(As per answer)	3 marks	3
	ii.	Concept	1 mark	5
		Components	2 marks	
		Application	2 marks	
OR	iii.	Introduction	1 mark	5
		Explanation	2 marks	
		Tool description	2 marks	
