Semester	: III (New)	**Term: I** Academic Year: 2020-2021
Course No	: COMP-231	**Title** : Agril. Informatics
Credits	: 2(1+1)	
Day & Date	: 18.01.2021	**Time: 12.00 to 13.00** **Total Marks: 40**

	SECTION "A" (Write the answers in 4-5 sentences only. Each question carries 4 marks)	16

Q. 1	**Explain System software with example. Enlist any four example of Application software**
	Ans: - 1) System software: Are the sets of programs responsible for running the computer, controlling various operations of computer recourses system and management of computer recourses. Operating system (OS) falls under this category
	    These software are the programs that manages two interface
	1) The interface between the user and the application
	2) The interface between application and the computer device and the files
	    E.g. DOS, Windows, Corel, Lotus, Linux, Mac os
	  a) **Example of Application Software:-** Corel, MS-word, MS- power point Google chrome, Lotus free lance	

Q.2	**Write in short about Hard Disc** **Ans:-** Hard Disc: : Def. Primary online storage device. It is made up of number of rigid metallic plates (Disk pack) mounted on a single shaft and also has read/write head to each platter. Also USB Hard Disk is available in market which is portable. The hard disk can hold more information than the floppy disk and the retrieval Of information from hard disk is faster when compared to floppies or tapes. A hard disk is fixed Inside the CPU and its capacity ranges from 20 MB onwards. The hard disk is made up of a Collection of discs (one below the other) known as platters on which the data is recorded. These platters are coated with magnetic material. It is less sensitive to external environmental Disorders and hence the storage in hard disk is safe. A small hard disk might be as much as 25 Times larger than a floppy disk. Storage Capacity of hard disks varies from 20 MB to several Giga bytes like 80GB, 160GB.	
Q.3	**Explain any four in-built functions in MS-Excel software** **Ans:-** 1) Auto fill feature: Excel has the feature which allows to fill cells with repetitive data such as chronological dates or numbers and repeated text.	

	2) Sorting capability: Excel has the capability of sorting any data in Ascending or Descending order. 3) OLE support: Object linking and Embedding is a feature through which Excel can contain any object like a document, a picture etc. 4) Formulas: In Excel. One of the powerful features is formulas. A formula is an equation that is used to perform calculations on data in a worksheet. 5) Statistical Analysis Tools: Microsoft Excel provides a set of data analysis tools— called the Analysis Tool Pak— that you can use to save steps when you develop complex statistical or engineering analyses.	
Q. 4	**Discuss any two smart phone (Mobile) Applications in agriculture that provides agriculture advise to farmers** **Ans: - 1) Kisan Suvidha**: Kisan Suvidha is an omnibus mobile app developed to help farmers by providing relevant information to them quickly. With click of a button, they can get the information on weather of current day and next 5 days, dealers, market prices, agro advisories, plant protection, IPM Practices etc. unique features like extreme weather alerts and market prices of commodity in Nearest area and the maximum price in state as well as India have been added to empower farmers in the best possible manner. **2). MKisan Application: -** This app has been designed and developed by in-house IT team of DAC with the help of CDAC Pune. It enables farmers and all other stakeholders to obtain advisories and information being sent by experts and government officials at different levels through mkisan portal without registering on the portal. **3). AgriMarket**: AgriMarket mobile app can be used to get the market price of crops in the markets within 50 km of the device's location. This app automatically captures the location of person using mobile GPS and fetches the market price of crops in those markets which falls within the range of 50 km. There is another option to get price of any market and any crop in case person does not want to use GPS location.	
Q.5	**Describe Psychological Barriers to Communication** **Ans:** Psychological barriers • Attitude and opinions: • Emotions • Filtering and distortion of message • Status difference • In attention • Closed mind • Fields of experience	

Q.2	Answer the following questions in one sentence (Any Six)	12
i)	Define Operating System with examples. **Ans**:- The software that manages the resources of a computer system And schedules its operation is called Operating system. E.g. MS-DOS, UNIX, Windows 95, Windows XP	
ii)	Define RDBMS with examples? Ans: - A relational database is one in which data is stored in the form of tables, using rows and columns. This arrangement makes it easy to locate and access specific data within the database. E.g. Oracle Database, MySQL, Microsoft SQL Server,	
iii)	Write the base and bases of hexadecimal number system. Ans: - Has total 16 symbols or digits (bases) (0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, F). Hence its base = 16	
iv)	What is Geo-Spatial technology? Ans:- Geo-spatial technology refers to equipment used to measure and analyze Earth's land and Features. Systems such as Global Positioning System (GPS) and Geographical Information System (GIS) is used in geospatial work.	
v)	What is Decision Support System? Ans: - A decision support system is an interactive system that provides the user with easy access to decision models and data in order to support semi-structured and unstructured decision-making tasks	
vi)	What is HTML? Ans:- Hypertext Markup Language (HTML) is the standard markup language for documents Designed to be displayed in a web browser. It can be assisted by technologies such As Cascading Style Sheets (CSS) and scripting languages such as JavaScript.	
vii)	Write the options available in Insert Menu of MS-Word software. Ans:- Table, Pictures, Clip arts, Shapes, Smart Arts, Hyperlinks, Header, footer etc	

SECTION 'C'		
Q.3	Answer the following Multiple Choice Questions (All Compulsory)	12
i)	Printed paper by printer is called as = **Hard Copy**	
	a) Soft copy b) **Hard Copy** c) Informationd) Carbon Copy	
ii)	ROM is a memory of type = **Temporary**	
	a) **Temporary** b) Permanent c) Optical d) Magnetic	
iii)	Animation facility is available in following software = **MS-Power point**	
	a) MS-Word b) MS-Excel c) MS-Accessed) **MS-Power point**	
iv)	File extension of MS-Word document is = **DOCX**	
	a) XLSX b) ACCDB c) **DOCX** d) PPTX	
v)	Base of Binary number system is =**2**	
	a) **2** b) 8 c) 10 d) 16	
vi)	Scanner is _____ device = **Input**	
	a) **Input** b) Output c) Primary Memory d) Secondary Memory	

vii)	_____is a folder that stores all files & folders deleted from windows temporarily, which can be restored again if needed. = **Recycle Bin**
	a) Temp b) Windows c) My documents d) **Recycle Bin**
viii)	Drag and Drop are the operations performed by = **Mouse**
	a) **Mouse** b) Keyboard c) Scanner d) Microphone
ix)	Graph creation facility is available in following software = **MS-Word**
	a) Windows b) **MS-Word** c) MS-Excel d) Power point
x)	When a network is located over wide areas such as cities, states, countries or even continents or world, it is called as = **WAN**
	a) LAN b) **WAN** c) MAN d) WIFI
xi)	**E-rural** involves the conceptualization, design, development, evaluation and application of innovative ways to use ICTs in the rural domain, with a primary focus on agriculture.
	a) e-evaluation b) **e-rural** c) e-development d) e-agriculture
xii)	Satellite-based navigation system made up of a network of 24 satellites placed into orbit to collect coordinates locations is called as = **GPS**
	a) RS b) GIS c) **GPS** d) Mapping