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SECOND MID TERM TEST, NOVEMBER - 2019
STANDARD - XII

Time : 1.30 hrs   **COMPUTER APPLICATION**   Marks: 50

10×1=10

I. Choose the best answer:-

1) WWW was invented by
   a) Tim Berners Lee   b) Charles Babbage
   c) Blaise Pascal   d) John Napier

2) UTP stands for
   a) Unshielded twisted page   b) United Trust Pair
   c) Unshielded twisted Pair   d) Unshielded Trust Pair

3) Which connector is used in the Ethernet Cable?
   a) RJ II   b) RJ 121   c) RJ 61   d) RJ 45

4) Which of the following is a open source network monitoring software?
   a) C++   b) OPNET   c) Open NMS   d) OM Net++

5) NS2 comprises of _____ key languages.
   a) 13   b) 3   c) 2   d) 4

6) Period of the Dotcom Bubble is _____
   a) 21st March 2000 - 9th September 2002
   b) 11th March 2000 - 9th September 2002
   c) 11th March 2000 - 9th October 2002
   d) 11th March 2001 - 9th October 2002

7) Match:-
   1. Ethernet   -   Port
   2. RJ45 connector   -   Ethernet
   3. RJ45 Jack   -   Plug
   4. RJ45 Cable   -   802.3
   a) 1, 2, 4, 3   b) 4, 1, 3, 2   c) 4, 3, 1, 2   d) 4, 2, 1, 3

8) _____ host the e-books on their web-sites
   a) Bulk buying sites   b) Community sites
   c) Digital Publishing sites   d) Licensing sites

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9) _____ is an online platform for writing articles about a topic.

   a) E-mail   b) Blog   c) Website   d) Webhost

10) Which of the following is not a tangible good?

   a) Mobile   b) Mobile App   c) Medicine   d) Flower bouquet

Part - B

II. Answer the following questions:- (any 5)   **5×2=10**

Question NO. 5 is Compulsory.

1) What are the uses of USB Cables?

2) What is an Ethernet Port?

3) What is trace file?

4) Write short notes on Open NMS?

5) What is Dotcom Bubble and Dotcom Burst?

6) Write a short note on Out-sourcing?

7) Distinguish between E-Business and E-Commerce?

Part - C

III. Answer the following questions. (any 5)   **5×3=15**

   (Question No. 6 is compulsory)

1) Write a short note on RJ45 connector?

2) What is meant by null modem calde?

3) Explain Free Software?

4) Write a short note on third wave of E-Commerce?

5) List out the popular Open Source Software?

6) Explain B2B module in E-Commerce?

7) Define E-Commerce.

Part - D

IV. Answer in detail:-   **3×5=15**

1) What is meant by Registed Jack? Explain the type of Jack? **[or]**
   Explain the components used in Ethernet Cabling?

2) Differenciate Proprietary and Open Source Software?   **[or]**
   List out the benefits of Open Source Software?

3) Differenciate a traditional Commerce and E-Commerce?   **[or]**
   Explain any five E-commerce revenue models?

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STD: XII	SECOND MID TERM TEST-2019	7.11.2019
SUBJECT: **Computer Applications**	TENTATIVE ANSWER KEY	MARKS: 50

Q.NO	PART-A	MARKS
1	a)Tim Berners Lee	1
2	c) Unshielded twisted pair	1
3	d) RJ 45	1
4	b) OPNET	1
5	c) 2	1
6	c) 11 th March 2000-9th October 2002	1
7	c) 4, 3, 1, 2	1
8	c) Digital Publishing sites	1
9	b) Blog	1
10	b) mobile app	1

Q. NO	PART-B	MARKS
1	• The Universal Serial Bus are used to connect keyboard, mouse and other peripheral devices. • Micro USB is a miniaturized version of the USB used for connecting mobile devices such as smart phones, GPS devices and digital cameras.	1 1
2	The Ethernet port is the jack where the Ethernet cable is to be connected. This port will be there in both the computers and the LAN port.	2
3	A significant output of simulation is the trace files. Trace files can document every incident that happened in the simulation and are used for examination.	2
4	• Open NMS (Network Management System) is a free and open-source initiative grade network monitoring and management platform.	1

	• It is established and maintained by a community of users ,developers and by the Open NMS Group, it offering services, training and support.	1
5	**Dotcom bubble:** The Dotcom Bubble was a historic excessive growth (excessive assumption) of economy that occurred roughly between 1995 and 2000. It was also a period of extreme growth in the usage and adaptation of the Internet as well. **Dotcom burst:** The Nasdaq-Composite stock market index, fell from 5046.86 to 1114.11. This is infamously, known as the Dotcom Crash or Dotcom Burst.	2
6	If a company's work is hired to another company, it would be termed as out-sourcing.	2

| **7** | <table><tr><th>E-Business</th><th>E-Commerce</th></tr><tr><td>E-commerce involves commercial transactions done over internet.</td><td>E-business is conduct of business processes on the internet.</td></tr><tr><td>E-commerce is subset of E-business.</td><td>E-business is superset of E-commerce.</td></tr><tr><td>E-commerce just involves buying and selling of products and services.</td><td>E-business includes all kind of pre sale and post sale efforts.</td></tr></table> | 2 |

Q.NO	PART-C	MARKS
1	• The RJ45 connector is a small plastic cup which will be used to connect the wire inside the connector and ready to connect the Internet. • The RJ45 connector looks similar like a telephone jack but it looks a slightly wider. The Ethernet cables are sometime called as RJ45 cables. • In RJ45 the "RJ" stands for the Registered Jack and the "45" simply refers to the number of interface standard in the cable.	1 1 1
2	• A cable interconnecting two devices directly is known as a null modem cable. • The Crossover Ethernet cable is an example of the Null modem Cables. This cable is used to join two PCs or two network devices of the same type.	3
3	• free software a concept developed in the 1980s by an MIT computer science researcher, Richard Stallman is defined by four conditions, as outlined by the nonprofit Free Software Foundation. • These "four freedoms" emphasize the ability of users to use and enjoy software as they see fit. • Freeware usually refers to proprietary software that users can download at no cost, but whose source code cannot be changed.	3

4	• The third wave is brought on by the mobile technologies. It connects users via mobile devices for real-time and on-demand transactions. • Not only the information is filtered by time, but also the geographic coordinates are used to screen the specific location-tailored information properly. • The term Web 3.0, summarize the various characteristics of the future Internet, which include Artificial Intelligence, Semantic Web, Generic Database etc.	3
5	• NS2 • OPEN NMS • Ubuntu • MySQL • PDF Creator • Open Office • 7zip GNUCASH and etc.	3
6	• commercial transactions take place between different business organizations, through the Internet. • The company also might get the advantage of discounts on bulk purchases. • Out-sourcing and Off-shoring are generally associated with B2B E-Commerce	3
7	E-Commerce can be described as the process of buying or selling products, services or information via computer networks.	3
Q.NO	**PART-D**	**MARKS**
1	• A Registered Jack commonly known as RJ is a network interface used for network cabling, wiring and jack construction. • The primary function of the registered jack is to connect different data equipment and telecommunication devices. • The commonly known registered jacks are RJ-11, RJ-45, RJ-21, and RJ-28. **RJ-11:** It is the most popular modern form of registered jack. It is found in home and office. This registered jack is mainly used in telephone and landlines. **RJ-14 and RJ-61:** The RJ-14 is the same as RJ-11 which will be used for telephone lines where same it as 6 pins whereas the RJ-61 will have 8 pins. This RJ-61 will use the twisted pair cable with a modular 8 connection. **RJ-21:** The RJ-21 connector has 50 pins with 25 pins at one end and 25 pins at the other end. It is also called as champ connector or Amphenol connector. The RJ-21 interface is typically used for data communication trucking applications.	5

(OR)	• Patch Cable (Twisted pair) • RJ45 Connector • Ethernet Ports • Crimping Tool	1
	Patch Cable (Twisted Pair): • These Cables are generally made up of 8 wires in different colors. Four of them are solid colours, and the others are striped. The eight colors are white green, green, white orange, blue, white blue, orange, white brown and brown. **RJ45 Connector:** • The RJ45 connector is a small plastic cup, which will be used to connect the wire inside the connector and ready to connect the Internet. • The RJ45 connector looks similar like a telephone jack but it looks a slightly wider. The Ethernet cables are sometimes called as RJ45 cables. • In RJ45 the "RJ" stands for the Registered Jack and the "45" simply refers to the number of interface standard in the cable. Each RJ45 connector has eight pins and connected to each end of the Ethernet cable. **Ethernet card and Port:** • Ethernet card is a Network Interface Card (NIC) that allows computers to connect and transmit data to the devices on the network. It may be an expansion card or built-in type. • The Ethernet port is the jack where the Ethernet cable is to be connected. This port will be there in both the computers and the LAN port. **Crimping Tool:** The crimping tool is a physical tool which is used to connect the patch wire and the Ethernet connector.	5

2	<table><tr><th>Proprietary Software</th><th>Open Source Software</th></tr><tr><td>It is developed and tested through open collaboration.</td><td>It is owned by the individual or the organization that developed it.</td></tr><tr><td>Anyone with the academic knowledge can access, inspect, modify and redistribute the source code.</td><td>only the owner or publisher who holds the legal property rights of the source code can access it.</td></tr><tr><td>The project is managed by an open source community of developers and programmers</td><td>The project is managed by a closed group of individuals or a team that developed it</td></tr><tr><td>They are not aimed at unskilled users outside of the programming community.</td><td>The y are focused on a limited market of both skilled and unskilled end users</td></tr></table>	5

		It provides better flexibility	There is a limited scope of innovation with the restrictions and all	
		Example: Android, firefox etc	Example: Windows, MacOS	

OR	• The complete options of the software can be used without any cost and restrictions. • We can share our ideas with the team, write the required code and share it with many. • As we can identify the programming techniques of group members, we can learn many ideas and make our program writing skills more efficient. • The coding in open source software are being groomed by many enthusiastically members of the group. So if we report problems that we have in the program they are quickly mended by the group's effort. • As we can make changes to the open source software, we can add the most required features in the software • Many open source software are very user friendly.	5
3	<table><tr><th>Traditional Commerce</th><th>E-Commerce</th></tr><tr><td>Traditional commerce is buying or selling of products and services physically.</td><td>E-Commerce carries out commercial transactions electronically on the Internet.</td></tr><tr><td>Customer can easily identify, authenticate and talk to the merchant.</td><td>Neither customer nor merchant see the other.</td></tr><tr><td>Physical stores are not feasible to be open all the time.</td><td>It is always available on all time and all days of the year.</td></tr><tr><td>Products can be inspected physically before purchase.</td><td>Products can't be inspected physically before purchase.</td></tr><tr><td>Scope of business is limited to particular area.</td><td>Scope of business is global. Vendors can expand their business Worldwide.</td></tr><tr><td>Resource focus Supply side.</td><td>Resource focus Demand side.</td></tr><tr><td>Business Relationship is Linear.</td><td>Business Relationship is End-to-end.</td></tr><tr><td>Marketing is one way marketing.</td><td>One-to-one marketing.</td></tr><tr><td>Payment is made by cash, cheque, cards etc.</td><td>Payment system is mostly credit card and through fund transfer.</td></tr><tr><td>Most goods are delivered instantly.</td><td>It takes time to transport goods.</td></tr></table>	5

OR	**1.** Auction site is a kind of website, that auctions items on the Internet and levies some commission from the sales. e.g. https://www.ebay.com/ **2.** Banner advertisement site displays advertisements of other companies in its websites and thereby earns revenue. **3.** Digital publishing sites effectively host the e-books or magazines on the web. They make profits in a number of ways such as advertising, selling etc., e.g. https://wordpress.org/ **4.** Licensing sites allow other websites to make use of their software. For example, the search engines which allow a visitor of the site to search within the website more easily. **5.** Name-your-price sites are just like normal retail sites. In contrast, the buyer negotiates with the retailer for a particular product or service. https://in.hotels.com/	5

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