

SRI KRISHNA MATRIC HR.SEC.SCHOOL.**SECOND MID TERM TEST - 2019 (CUDDALORE DT) EXAM DATE: 22.11.2019**12th Standard
Computer ApplicationsReg.No. :

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Exam Time : 01:30:00 Hrs

Total Marks : 50

10 x 1 = 10

PART - A**Choose the best answer.**

- 1) Which medium is used in the optical fibre cables to transmit data?
(a) Microwave (b) infra red (c) light (d) sound
- 2) How many pins are used in RJ45 cables?
(a) 8 (b) 6 (c) 50 (d) 25
- 3) Which is an example of network simulator?
(a) simulator (b) TCL (c) Ns2 (d) C++
- 4) Open NMS was released in _____
(a) 1999 (b) 2000 (c) 2003 (d) 2004
- 5) SME stands for
(a) Small and medium sized enterprises (b) Simple and medium enterprises (c) Sound messaging enterprises (d) Short messaging enterprises
- 6) _____ Fusion of television, computer and telecom networking technologies.
(a) Teleputer (b) Interpreter (c) cables (d) modems
- 7) Which of the following is not a category of micropayment?
(a) Buying a movie ticket (b) Subscription to e journals (c) Buying a laptop (d) Paying for smartphone app

8) Match the following

List A	List B
A1) First Digit	B1) Account number
A2) 9 th to 15 th Digit	B2) MII Code
A3) First 6 Digits	B3) BIN Code
A4) Last Digit	B4) Check digit

(a)	(b)	(c)	(d)																																
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- 9) Which of the following is not a security element involved in E-Commerce?
(a) Authenticity (b) Confidentiality (c) Fishing (d) Privacy
- 10) 3-D Secure, a protocol was developed by
(a) Visa (b) Master (c) Rupay (d) PayTM

PART - B

5 x 2 = 10

Answer any five questions.

- 11) What are the uses of USB cables?
- 12) What is an Ethernet port?
- 13) Write short note on Open NMS?
- 14) Distinguish between E-Business and E-Commerce
- 15) What is dotcom bubble and dotcom burst?
- 16) Explain the concept of e-wallet
- 17) Write about digital signature

PART - C

5 x 3 = 15

Answer any five questions.

- 18) What are the differences between serial and parallel ports?
- 19) What are the types of Fibre optic cables?
- 20) Write note on open source hardware.
- 21) Write a short note on the third wave of E-Commerce.
- 22) Briefly explain the stored value card and its types.
- 23) Explain 3D secure payment protocols

PART - C

3 x 5 = 15

Answer any three questions.

- 24) Explain the types of network cables
- 25) List out the Benefits of Open Source Software
- 26) How would you differentiate a traditional commerce and E-Commerce?
- 27) What is cryptocurrency? Explain the same.
- 28) Explain the advantages of Credit card.

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A1A2A3A4	A1A2A3A4	A1A2A3A4	A1A2A3A4
a)B4B3B2B1	b)B2B1B3B4	c)B2B3B4B1	d)B2B4B3B1

- 9) Which of the following is not a security element involved in E-Commerce?
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PART - B

5 x 2 = 10

Answer any five questions.

- 11) What are the uses of USB cables?
Answer : (i) The Universal Serial Bus are used to connect keyboard, mouse and other peripheral devices.
(ii) Micro USB is a miniaturized version of the USB used for connecting mobile devices such as smartphones, GPS devices, and digital cameras.
- 12) What is an Ethernet port?
Answer : (i) The Ethernet port is the jack where the Ethernet cable is to be connected.
(ii) This port will be there in both the computers and the LAN port.
- 13) Write short note on Open NMS?
Answer : Open NMS (Network Management System) is a free and open-source initiative grade network monitoring and management platform. It is established and maintained by a community of users, developers and by the Open NMS Group, it offering services, training, and support.
- 14) Distinguish between E-Business and E-Commerce

Answer :

E-Commerce	E-business
1. E-commerce involves commercial transactions done over internet.	1. E-business is conduct of business processes on the internet.
2. E-commerce is a subset of E-business	2. E-business is a superset of E-commerce
3. E-commerce usually requires the use of just a website.	3. E-business involves the use of CRM'S, ERP'S that connect different business processes.

E-Commerce	E-business
4. E-commerce just involves buying and selling of products and services.	4. E-business includes all kind of pre-sale and post-sale efforts.

15) What is dotcom bubble and dotcom burst?

Answer : Dotcom Bubble

(i) The Dotcom Bubble was a historic excessive growth (excessive assumption) of economy that occurred roughly between 1995 and 2000.

(ii) It was also a period of extreme growth in the usage and adaptation of the Internet as well.

DotcomBurst

(i) The Nasdaq-Composite stock market index fell from 5046.86 to 1114.11.

(ii) This is infamous, known as the Dotcom Crash or Dotcom Burst.

16) Explain the concept of e-wallet

Answer : Electronic wallets (e-wallets) or electronic purses allow users to make electronic transactions quickly and securely over the Internet through smart phones or computers.

17) Write about digital signature

Answer : A digital signature is a mechanism that is used to verify that a particular digital document, message or transaction is authentic.

PART - C

5 x 3 = 15

Answer any five questions.

18) What are the differences between serial and parallel ports?

Answer :

Subject	Serial Port	Parallel Port
Pins	9 pins	25 pins
Type of port	Male Port	Female Port
Color	Usually Purple in Color	Usually Green in Color
Data Transfer Rate	Slower than Parallel Port	Faster than Serial Port
Moving Bits	Serial move bits inline, one at a time	Parallel moves bits next to each other
Usage of Wire	Serial ports are only used 2 wires for transmitting and receiving data	Parallel Port used 8 or more wire for transmitting and receiving data.

19) What are the types of Fibre optic cables?

Answer : There are two types of fiber optic cables available.

(i) One is single-mode (100BaseBx).

(ii) Multimode (100BaseSX).

(a) Single-mode cables are used for long distance transmission and at a high cost.

(b) Multimode cables are used for short distance transmission at a very low cost.

20) Write note on open source hardware.

Answer : In this period of increased competition and cyber crimes, the computers used by individuals or business organizations may have spy hardware of rivals. Open source hardware technology helps in such threats. In this technique, we get the components of the hardware and its circuit diagram, so that we can remove suspicious spyware if found.

21) Write a short note on the third wave of E-Commerce.

Answer : (i) The third wave is brought on by mobile technologies.

(ii) It connects users via mobile devices for real-time and on-demand transactions. mobile technologies.

(iii) It connects users via mobile devices for real-time and on-demand transactions.

(iv) Not only the information is filtered by time, but also the geographic coordinates are used to screen the specific location-tailored information properly.

(v) The term Web 3.0, summarize the various characteristics of the future Internet which include Artificial Intelligence, SemanticWeb, and Generic Database, etc.

22) Briefly explain the stored value card and its types.

Answer : 1. Stored value card is a type of debit card that is pre-loaded with certain amount (value), with which a payment is made.

2. It is a card that has default monetary value onto it.

3. The card may be disposed when the value is used, or recharged to use it again.

4. The major advantage of stored value card is that customers don't need to have a bank account to get prepaid cards.

5. There are two varieties for stored value card.

(i) Closed Loop

1. In closed loop cards, money is metaphorically stored on the card in the form of binary-coded data.

2. Closed loop cards are issued by a specific merchant or merchant and can only be used to make purchases from specific place. e.g. chennai metro rail travel card.

(ii) Open loop (multipurpose)

1. Open loop cards can be used to make debit transaction at variety of retailers.

2. It is also called as prepaid-debit cards
3. It can be used anywhere the branded cards are accepted. e.g. Visa gift cards.

23) Explain 3D secure payment protocols

Answer : (i) 3-D Secure is a secure payment protocol on the Internet.

(ii) It was developed by Visa to increase the level of transaction security, and it has been adapted by MasterCard.

(iii) It gives a better authentication of the holder of the payment card, during purchases made on websites.

(iv) The basic concept of this (XML-based) protocol, is to link the financial authorization process with an online authentication system.

(v) This authentication model comprises 3 domains (hence the name 3D) which are:

1. The Acquirer Domain
2. The Issuer Domain
3. The interoperability Domain

PART - C

3 x 5 = 15

Answer any three questions.

24) Explain the types of network cables

Answer : There are many types of cables available in networking. Here we discuss about six different cables.

1. Coaxial Cables:

(i) This cable is used to connect the television sets to home antennas and transfer the information in 10 Mbps

(ii) It is divided into thinnet and thicknet cables.

(iii) These cables have a copper wire inside and insulation is covered on the top of the copper wire to provide protection to the cable.

(iv) These cables are very difficult to install and maintain because they are too big to carry and replace.

(v) The coaxial cable got its name by the word "coax". Nowadays coaxial cables are also used for dish TV where the setup box and the television is connected using the coaxial cable only.

(vi) Some of the cable names are Media Bridge 50-foot Coaxial cable, Amazon basics CL2- Rated Coaxial cables, etc.

2. Twisted Pair cables:

(i) It is a type of cable with two or more insulated wires twisted together.

(ii) It started with the speed of 10 Mbps (10BASE-T cable is used).

(iii) Then the cable is improved and the speed was higher and went to 100 Mbps and the cable was renamed as 100BASE-TX.

(iv) Then finally the cable improved more made to 10 Gbps and named as 10GBASE-T.

(v) This twisted cable has 8 wires which are twisted to ignore electromagnetic interference.

(vi) Also the eight wires cannot be placed in a single unit there could be difficult in spacious, so it is twisted to make as one wire.

(vii) There are two types of twisted pair cables, Unshielded Twisted Pair (UTP) and Shielded Twisted pair (STP).

(viii) The UTP is used nowadays as modem cables for Internet and they are lower in cost and installation and maintenance is easy compared to the coaxial cables.

(ix) STP is similar to UTP, but it is covered by an additional jacket to protect the wires from External interference.

3. Fiber Optics:

(i) This cable is different from the other two cables.

(ii) The other two cables had an insulating material at the outside and the conducting material like copper inside.

(iii) But in this cable it is of strands of glass and pulse of light is used to send the information.

(iv) They are mainly used in Wide Area Network (WAN)/The WAN is network that extends to very large distance to connect the computers.

4. Ethernet cables:

(i) Ethernet cable is the most common type of network cable mainly used for connecting the computers or devices at home or office.

(ii) This cable connects wired devices within the local area network (LAN) for sharing the resources and accessing the Internet.

25) List out the Benefits of Open Source Software

Answer : There are many opensource software. so, we can select and use any software that suits our needs.

(i) The complete options of the software can be used without any cost and restrictions.

(ii) We can share our ideas with the team, write the required code and share it with many.

(iii) As we can identify the programming techniques of group members, we can learn many ideas and make our program writing skills more efficient.

(iv) The coding in opensource 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.

(v) As we can make changes to the opensource software, we can add the most required features in the

software.

(vi) Many open source software are very user friendly.

26) How would you differentiate a traditional commerce and E-Commerce?

Answer :

Traditional Commerce	E-Commerce
Traditional commerce is buying or selling of products and services physically.	E-Commerce carries out commercial transactions electronically on the Internet.
Customer can easily identify, authenticate and talk to the merchant.	Neither customer nor merchant see the other.
Physical stores are not feasible to be open all the time.	It is always available on all time and all days of the year.
Products can be inspected physically before purchase.	Products can't be inspected physically before purchase.
Scope of business is limited to a particular area.	Scope of business is global. Vendors can expand their business worldwide
Resource focuses Supply side.	Resource focuses Demand side.
Business Relationship is Linear.	Business Relationship is End-to-end.
Marketing is one way marketing	One-to-one marketing.
Payment is made by cash, cheque, cards, etc.	Payment system is mostly credit card and through fund transfer.
Most goods are delivered instantly.	It takes time to transport goods.

27) What is cryptocurrency? Explain the same.

Answer : 1. A cryptocurrency is a unique virtual (digital) asset designed to work as a medium of exchange using cryptographic algorithm.

2. This algorithm secures the transactions by recording it in block chain and controls the creation of additional units of the currency.

3. Cryptocurrency is also called as cryptocurrencies, e-cash, alternative currencies or virtual currencies and are classified as a subset of digital currencies.

4. Cryptocurrency can be defined as distributed accounting system based on cryptography, storing information about the state of ownership in conventional units.

5. The state of ownership of a cryptocurrency is related to individual system blocks called "portfolios". Only the holder of the corresponding private key would have control over a given portfolio and it is impossible to issue the same unit twice.

28) Explain the advantages of Credit card.

Answer : 1. Most credit cards are accepted worldwide.

2. It is not necessary to pay physical money at the time of purchase.

3. The customer gets an extra period to pay the purchase.

4. Depending on the card, there is no need to pay annuity.

5. Allows purchase over the Internet in installments

6. Some issuers allows "round up" the purchase price and pay the difference

7. In cash to make the transactions easy

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