

CHINIOT ISLAMIA PUBLIC SCHOOL AND COLLEGE

1ST QUARTERLY TEST

testing13 - Computer Science VIII P1

Name:

Section:

Roll No:

Time: 2 Hours

Total Marks: 100

Q1 .

1. You want to start a clothing business. What's one way to define a niche market within the clothing industry?

2. A student posts rude comments about a classmate on a social media platform. Why is this an example of inappropriate behavior? What could be the consequences?

3. a) What is 3D imaging, and how does it differ from 2D imaging?

[2]

b) Name two fields where 3D imaging is commonly used. [2] 1).....

2)

4. **Scenario 4: A Local Gym** 1) "FitLife Gym" has state-of-the-art equipment and offers a wide variety of classes. What else could be a strength?

2) The gym has limited parking and outdated locker rooms. What else could be a weakness?

3) The local population is becoming more health-conscious. How can the gym take advantage?

4) New budget gyms are opening in the area. What other threats exist?

5. **Situation:** A hospital uses an AI-powered system to analyze patient data and predict potential health issues. **Question:** How might this system?

6. You offer online tutoring. How will you ensure quality of instruction?

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7. What types of creative works are protected under copyright laws? Provide at least three examples.

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8. **Scenario : A Tech Startup (Mobile App)** 1) "Innovate Inc." has developed a unique mobile app with innovative features. What are others?
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- 2) The app has limited marketing and brand recognition. What else could be a weakness?
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- 3) The mobile app market is growing rapidly. How can "Innovate Inc." take advantage of this?
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- 4) Larger tech companies could develop similar apps. What other threats exist?
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9. You're opening a coffee shop near a university. What's a suitable promotional strategy?
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10. How does Netflix use AI algorithms to analyze your viewing history and suggest new movies or shows?
[3]
11. You're selling a new type of water bottle. What are three potential benefits you could highlight?
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12. a) What is one advantage of using 3D imaging in medical diagnoses? [1]
- [3]

13. You're starting a dog-walking business. Write a brief (under 100 words) executive summary.

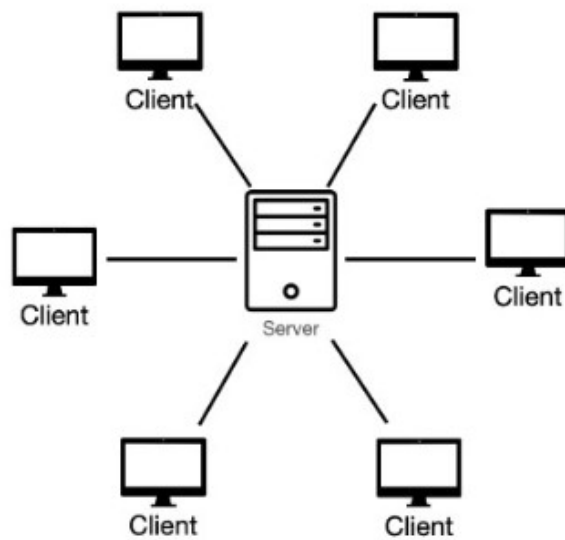
14. What is cybercrime? Provide two examples of common cybercrimes.

15. You run a food delivery service. How will you ensure food quality?

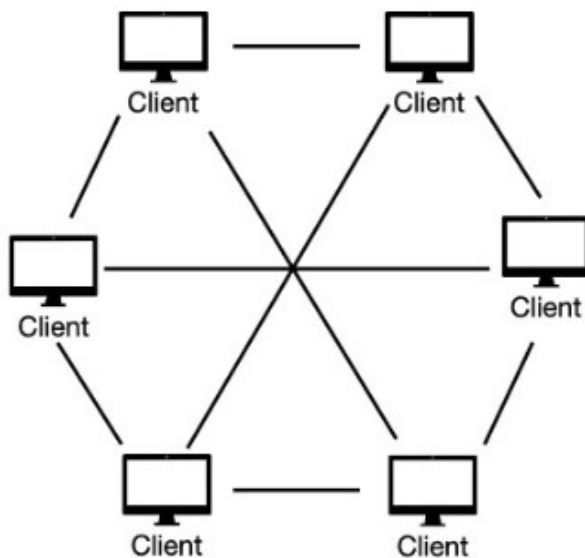
16. You're starting a home-based tutoring service. State your funding needs (if any).

17. An architectural firm is using 3D printing to create scale models of new buildings. **Question:** How does 3D printing help architects visualize their designs?

18.



- i) Identify the type of network [2] a)



- ii) Why we need Computer Network?

[2]

- iii) What do you know about sharing in each case a and b and how do they share?

[2]

19. a) What is virtual reality, and how does it differ from augmented reality (AR)?

[3]

Difference

e:

- b) Name two fields where virtual reality is commonly used. [2]

1)

2)

What is one advantage of using virtual reality in education?

[1]

20. Match the applications and characteristics of different technologies. [5] Column A (Descriptions) Column B (Technology/Concepts)

A system that uses satellites to provide location and time information anywhere on Earth. **Cellular Communication** A short-range wireless technology used for connecting devices such as headphones and keyboards. **GPS** A wireless networking technology that allows devices to connect to the internet over a local area network. **Bluetooth** A communication method that allows mobile phones to connect to a network for voice and data services. **Wi-Fi** A specialized computer system that is part of a larger device and performs dedicated functions. **Embedded System**

21. What is meant by "appropriate behavior" while using the internet? Provide two examples.

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22. Explain the importance of respecting privacy when sharing images or videos online, especially when they involve other people.

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23. You're offering a language learning app. What are three key benefits of your product?

24. a) Draw the Ring Topology ? [2] b) Write one advantage of Ring Topology

[1]

c) Write one disadvantage of Ring topology

[1]

25. A city government is looking to implement a blockchain-based digital record keeping system to track and verify transactions related to y?

26. a) What is a host in a computer network? A) A device that connects to a network and can send/receive data B) A type of network cable C) A network protocol D) A software application b) What does a Network Interface Card (NIC) do in a computer? A) Increases the speed of the CPU B) Connects the computer to a network C) Stores data D) Displays graphics c) Which of the following is an example of a network node? A) A printer connected to a network B) A smartphone accessing the internet C) A router managing data traffic D) All of the above d) What is the primary purpose of a Network Interface Card (NIC)?

★ (a) To display graphics

★ (b) To connect a computer to a network

★ (c) To store files

★ (d) To process data

27. How can virtual reality enable social interaction between users in a virtual environment? Write any one example

[3]

28. You're launching a handmade jewelry business online. Who will be on your management team?

29. Discuss the ethical implications of cyberbullying. What responsibilities do digital citizens have to address or prevent it?
