

CHINIOT ISLAMIA PUBLIC SCHOOL AND COLLEGE

1ST QUARTERLY TEST

Computer Science Paper 1 - Grade 8

Name: _____	Section: _____	Roll No: _____
--------------------	-----------------------	-----------------------

Duration: 2 Hours

Total Marks: 50

INSTRUCTIONS: Answer all questions. Use a black or dark blue pen. You may use an HB pencil for any diagrams or graphs. Write your name, centre number and candidate number in the boxes at the top of the page. Write your answer to each question in the space provided. Do not use an erasable pen or correction fluid. Do not write on any bar codes. Calculators must not be used in this paper.

INFORMATION: The total mark for this paper is 50. The number of marks for each question or part question is shown in brackets []. No marks will be awarded for using brand names of software packages or hardware.

Total Marks: 50 **Name:** _____ **Section:** _____

INSTRUCTIONS • Answer all questions. • Use a black or dark blue pen. You may use an HB pencil for any diagrams or graphs. • Write your name, centre number and candidate number in the boxes at the top of the page. • Write your answer to each question in the space provided. • Do not use an erasable pen or correction fluid. • Do not write on any bar codes. • Calculators must not be used in this paper.

INFORMATION • The total mark for this paper is 50. • The number of marks for each question or part question is shown in brackets []. • No marks will be awarded for using brand names of software packages or hardware.

Q1 .

1. A fitness app uses AI to give health advice based on user data. Why is this helpful?

2. A farmer uses drones to spray crops. Which emerging technology is being applied and why?

3. An internet search engine shows the most relevant results using AI. Why is AI needed here?

4. A doctor uses AR glasses during surgery to see patient data on-screen. How does this help?

5. A school replaces chalkboards with smartboards connected to the internet. How is this an example of emerging technology? Why is this more efficient?

6. A rescue team uses robots after an earthquake. Why are robots more suitable than humans in this situation?

7. A factory uses robots to assemble cars. What advantage do robots give compared to humans?

8. A travel app suggests the cheapest flights and hotels. How does AI help in travel?

9. A car company develops self-driving cars. How does AI improve automobile safety?

10. A school uses AI to track student progress. How does this improve education?

11. A hospital uses robotic arms for surgery. How do robots improve accuracy in medicine?

12. A bank stores transactions on blockchain instead of a single server. Why is this system safer?

13. A navigation app uses AI to find the fastest route in traffic. Why is this important for transport?

14. A teacher wants students to explore the solar system using VR headsets. What benefit does VR provide?

15. A government uses AI to analyze citizen complaints online. How does this make services better?

Q2 .

1. A company uses VPN for employees working from different countries. What are three disadvantages of VPN?

2. A company uses WAN for global communication. What are two disadvantages compared to LAN? What are two advantages?

3. What do you understand about copyright and piracy and it is legal or not kindly explain in your own words.

4. A teacher explains that LAN is faster than WAN. Why is LAN usually faster?

5. How many types of SEO and define all types of SEO .

6. A student's computer cannot connect to the internet because the NIC is missing. What role does the NIC play?

7. State any three threats of internet and related security measures in your own words.

8. A person listen a radio FM during driving in a car. Is this guided or unguided media?
Why?

9. What is Digital entrepreneurship and its advantages state your answer in detail.

10. A student's Bluetooth headphones disconnect often. What disadvantage of PAN does this show? Write one other disadvantage.

11. A smart home uses sensors to control lights and fans automatically. How does IoT make life easier?

12. The Internet has become an integral part of modern life kindly illustrate this statement and how it is playing an important role in modern life explain your answer in detail.

13. What is meant by cyber bullying ? Give one real life example to illustrate cyber culling?

14. A teacher arranges computers in a circular form and data can be flow either clockwise or anticlockwise. Which topology is this and what are its disadvantages?

15. Identity theft is one kind of common threats on internet, how it is possible state your answer in detail.

16. A student sees a network cable with copper wires. Is this guided or unguided media? Why?

17. Write all steps how to create a facebook ad for your business.

18. It is important to use computer resources responsibly and ethically, state any five improper uses of computer resources which are very common in digital environment.

19. What is cybercrime and what kind of cybercrime can be possible in real life elaborate any two of them in your own words.

20. A small office connects a group of computers together in a small geographical area . Which type of network is this? What are its advantages?

21. What do you understand about ethics in computer and what kind of ethical issues can be faced in digital environment discuss your answer in detail.

22. Now a days students are using several resources from internet to create their assignment so kindly explain the concept of plagiarism how it is helpful for students.

23. List down any five appropriate behaviour while navigating the internet.

24. A school network uses a central server to control access. What type of architecture is this?

25. A bank connects branches across different cities. Which type of network is this? What are its advantages?

26. A company wants equal communication between computers without a central server. Which network architecture should they use and why?
