AGA KHAN UNIVERSITY EXAMINATION BOARD

SECONDARY SCHOOL CERTIFICATE

CLASS IX

ANNUAL EXAMINATIONS (THEORY) 2024

Computer Science Paper II

Time: 1 hour 50 minutes   Marks: 25

INSTRUCTIONS

Please read the following instructions carefully.

1. Check your name and school information. Sign if it is accurate.

I agree that this is my name and school.
Candidate's Signature

RUBRIC

2. There are SIX questions. Answer ALL questions. Questions 5 and 6 each offer TWO choices. Attempt any ONE choice from each.

3. When answering the questions:

    Read each question carefully.
    Use a black pointer to write your answers. DO NOT write your answers in pencil.
    Use a black pencil for diagrams. DO NOT use coloured pencils.
    DO NOT use staples, paper clips, glue, correcting fluid or ink erasers.
    Complete your answer in the allocated space only. DO NOT write outside the answer box.

4. The marks for the questions are shown in brackets ( ).

5. You may use a simple calculator if you wish.

Q.1. (Total 4 Marks)

Describe the purpose of file management system in an operating system.

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Q.2. (Total 2 Marks)

Describe the role of network communication devices in enabling efficient communication and collaboration in a modern workplace.

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Q.3. (Total 2 Marks)

i. Draw the diagram of bus topology. (1 Mark)

Space for Diagram

ii.   Give ONE advantage of using bus topology.   (1 Mark)

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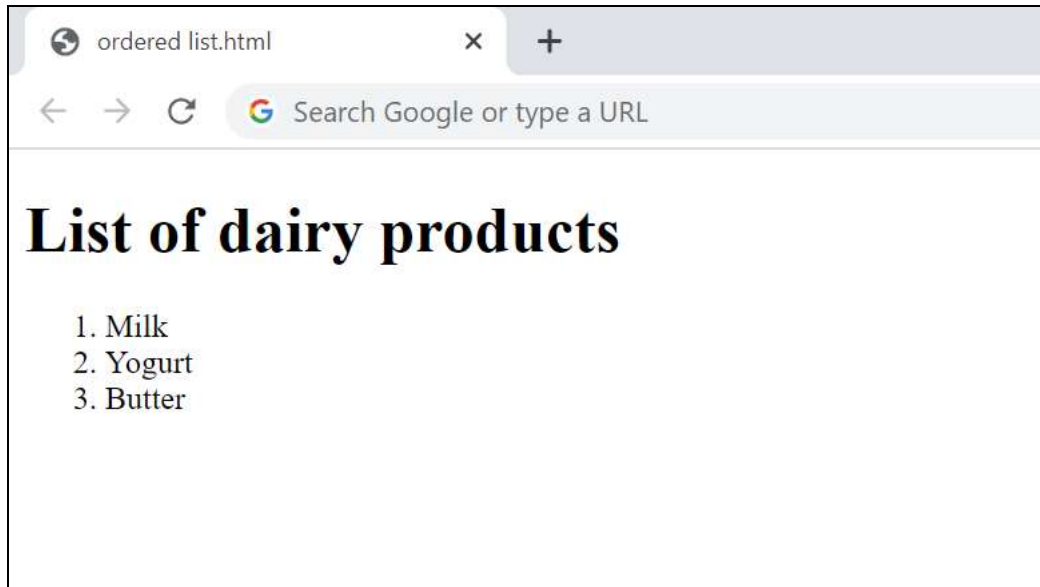Q.4.   (Total 5 Marks)

Consider the given image of a webpage.

Write the HTML code to display the web page shown in the given image.

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Q.5. (Total 6 Marks)

EITHER

a. You have recently been hired as a consultant by an advertising agency to recommend the best type of monitors for their new office. They are considering LED monitors and want to understand the advantages and disadvantages before making a decision.

Explain THREE advantages and THREE disadvantages of using LED monitors to the agency.

OR

b. You work for a non-profit organisation that is looking to switch from proprietary software to a more cost-effective solution.

Explain THREE advantages and THREE disadvantages of using open source software for the organisation's various operations.

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Q.6. (Total 6 Marks)

EITHER

a. A company is considering installing a new network infrastructure in its office. They are exploring different types of guided media and have asked you to explain the advantages and disadvantages of using twisted pair cable.

    i. What is twisted pair cable and how does it work? (2 Marks)

    ii. Give TWO advantages and TWO disadvantages of using twisted pair cable for network infrastructure. (4 Marks)

OR

b.

    i. Describe Metropolitan Area Network (MAN). (2 Marks)

    ii. Give TWO advantages and TWO disadvantages of MAN. (4 Marks)

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