AGA KHAN UNIVERSITY EXAMINATION BOARD

SECONDARY SCHOOL CERTIFICATE

CLASS IX

MODEL EXAMINATION PAPER 2023 AND ONWARDS

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 & 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)

a. Define the given user interfaces.

    i. Command Line Interface (CLI) (1 Mark)

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    ii. Graphical User Interface (GUI) (1 Mark)

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b. Define the given types of operating system.

    i. Batch Processing System (1 Mark)

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    ii. Timesharing System (1 Mark)

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Q.2. (Total 2 Marks)

    i. Define the half-duplex data transmission mode. (1 Mark)

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    ii. Mention an example of the simplex transmission mode. (1 Mark)

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Q.3.   (Total 2 Marks)

Differentiate between the given data transmission terms.

    i.   Attenuation and Amplification   (1 Mark)

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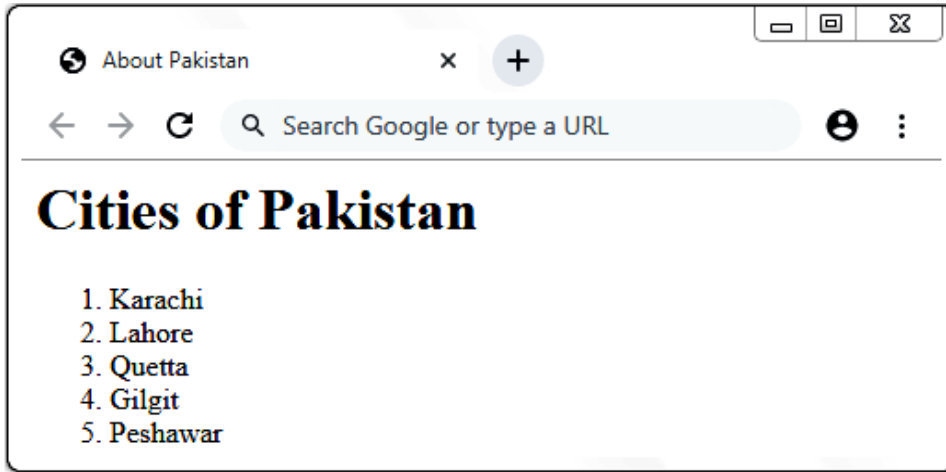
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    ii.   Distortion and Cross Talk   (1 Mark)

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Computer Science Model Paper IX

Q.4.   (Total 5 Marks)

Consider the given image of a web page.

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

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Q.5.   (Total 6 Marks)

EITHER

a.
    i.   Describe the given system softwares.   (4 Marks)

         I.   Device Driver
         II.   Utility Program

    ii.   Differentiate between shareware and freeware software in TWO points.   (2 Marks)

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OR

b.

i. Draw the block diagram of a computer system. (2 Marks)

ii. Describe the function of any FOUR components of block diagram drawn in part i.

(4 Marks)

Space for Diagram

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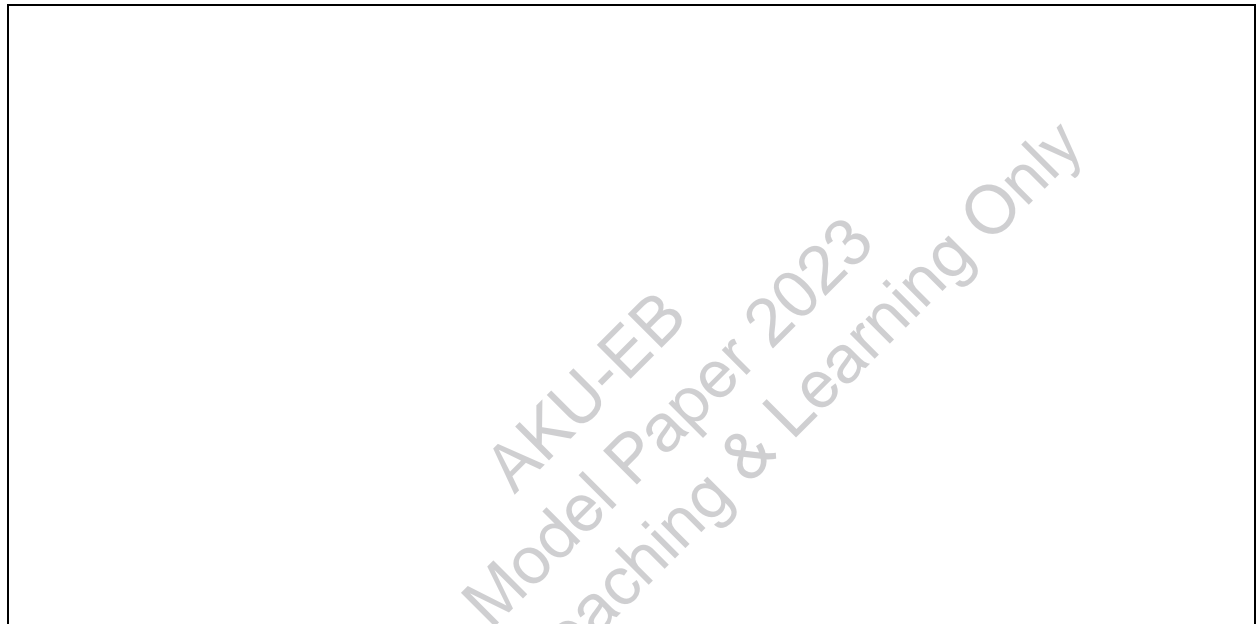
Q.6.   (Total 6 Marks)

EITHER

a.   Describe the following types of network topologies with the help of a diagram of each.

    i.   Bus Topology   (3 Marks)
    ii.   Star Topology   (3 Marks)

OR

b.   Describe any TWO features and draw a diagram for each of the following transmissions.

    i.   Synchronous Transmission   (3 Marks)
    ii.   Asynchronous Transmission   (3 Marks)

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END OF PAPER

Please use this page for rough work