

AGA KHAN UNIVERSITY EXAMINATION BOARD

SECONDARY SCHOOL CERTIFICATE

CLASS IX

ANNUAL EXAMINATIONS (THEORY) 2023

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)

Computer operating systems have evolved since the first computers used the Command Line Interface (CLI). Nowadays, many computers use Graphical User Interface (GUI).

Give TWO advantages and TWO disadvantages of using GUI.

Q.2. (Total 2 Marks)

Give any TWO differences between analog and digital signals.

Q.3. (Total 2 Marks)

- a. Draw the diagram of star topology. (1 Mark)

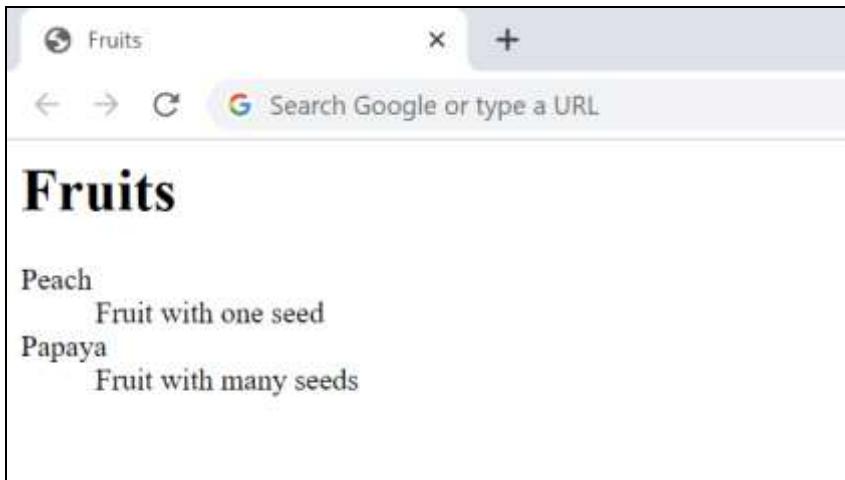
Space for diagram

- b. Give any ONE advantage of using this topology. (1 Mark)

Q.4.

(Total 5 Marks)

Consider the given image of a web page.



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.

- i. Describe the term hard disk drive (HDD). (2 Marks)
- ii. Give any FOUR reasons why hard disk drives (HDD) are being replaced by solid-state drives (SSD). (4 Marks)

OR

b.

- i. Name the basic operations of a computer. (2 Marks)
- ii. Describe each basic operation of a computer. (4 Marks)

PLEASE TURN OVER THE PAGE

Q.6.

(Total 6 Marks)

EITHER

a.

- i. Write TWO differences between guided (wired) and unguided (wireless) media. (2 Marks)
- ii. Describe any TWO examples of guided media. (4 Marks)

OR

b.

- Explain Local Area Network (LAN) and Wide Area Network (WAN) with the help of TWO characteristics and a diagram of each. (6 Marks)

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