

**AGA KHAN UNIVERSITY EXAMINATION BOARD**

**SECONDARY SCHOOL CERTIFICATE**

**CLASS IX**

**ANNUAL EXAMINATIONS (THEORY) 2025**

**Computer Science Paper I**

**Time: 1 hour 10 minutes    Marks: 40**

**INSTRUCTIONS**

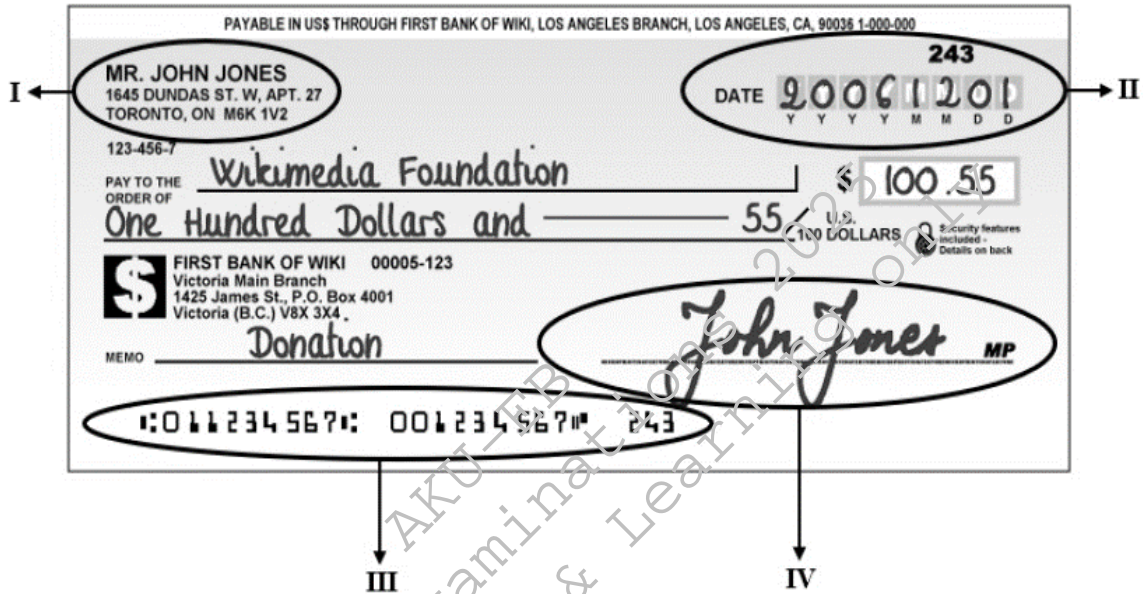
1. Read each question carefully.
2. Answer the questions on the separate answer sheet provided. DO NOT write your answers on the question paper.
3. There are 100 answer numbers on the answer sheet. Use answer numbers 1 to 40 only.
4. In each question, there are four choices A, B, C, D. Choose ONE. On the answer grid, black out the circle for your choice with a pencil as shown below.

Correct Way	Incorrect Ways
1 (A) (B) ● (D)	1 (A) (B) (C) (D)
	2 (A) (B) (C) (D)
	3 (A) (B) (C) (D)
	4 (A) (B) (C) (D)

Candidate's Signature

5. If you want to change your answer, ERASE the first answer completely with a rubber, before blacking out a new circle.
6. DO NOT write anything in the answer grid. The computer only records what is in the circles.
7. You may use a simple calculator if you wish.

1. With reference to generation of computers, Python belongs to
  - A. first generation.
  - B. second generation.
  - C. third generation.
  - D. fourth generation.
2. Which part of this cheque is readable by the magnetic ink character reader?



- A. I
  - B. II
  - C. III
  - D. IV
3. The type of computers that uses only continuous signals as input is known as
    - A. analog computers.
    - B. digital computers.
    - C. hybrid computers.
    - D. personal computers.
  4. Consider the following:
    - Introduced in 1970s
    - A single chip controls the operations of entire computer system
    - Commonly found in desktops and laptops

The type of digital computer described in the given points is

- A. minicomputer.
- B. supercomputer.
- C. microcomputer.
- D. mainframe computer.

5. An output device that can be used instead of tablet screens to conduct an online class is
- A. plotters.
  - B. printers.
  - C. actuators.
  - D. monitors.

6. Consider the following software.

- Macintosh
- Ubuntu
- Linux

The given software are the examples of

- A. device drivers.
  - B. utility programs.
  - C. operating system.
  - D. language processors.
7. In comparison to Random Access Memory (RAM), the statement that accurately describes a feature of Read Only Memory (ROM) is that it
- A. is typically faster in data access.
  - B. cannot perform the read function.
  - C. cannot change data when the computer is turned off.
  - D. is primarily used for secondary storage in computer system.
8. Consider the given properties:
- I. Transfers data sequentially, one bit at a time
  - II. Receive data between computer and printer/ scanner
  - III. Typically used for high-speed data transfer between a computer and external devices

The property(ies) that BEST describe(s) a serial port is/ are

- A. I only.
  - B. III only.
  - C. I and II.
  - D. II and III.
9. Which of the following is NOT a pointing device?
- A. Mouse
  - B. Joy stick
  - C. Light pen
  - D. Barcode reader

10. The statement that distinguishes data from information is that data is
- A. qualitative, while information is quantitative.
  - B. static and unchangeable, while information is dynamic.
  - C. collected in a raw form, while information provides meaningful insights.
  - D. relevant and contextual, while information is collected through observation.
11. A software or program that allows modification or redistribution in its source code is a/ an
- A. open-source software.
  - B. proprietary software.
  - C. shareware.
  - D. freeware.
12. A text-based interface that provides precise control over system functions and configuration is
- A. touch user interface.
  - B. menu driven interface.
  - C. graphical user interface.
  - D. command line interface.
13. A type of an operating system that is designed to process data and generate responses to external events within a specified time frame is
- A. single-user system.
  - B. multi-user system.
  - C. time sharing system.
  - D. batch processing system.
14. The type of operating system that only allows a user to login and use the system at a time is
- A. menu driven.
  - B. time sharing.
  - C. single user.
  - D. multi user.
15. A computer user notices that the system is running slowly and frequently encounters errors related to insufficient space, while running multiple applications simultaneously.
- The function of operating system that is MOST likely to address the given issues is
- A. I/O management.
  - B. process management.
  - C. memory management.
  - D. resource management.

16. A type of an operating system that is used in oil refinery for indicating 'the temperature is getting too high' is
- A. real time system.
  - B. multi-user system.
  - C. time sharing system.
  - D. batch processing system.
17. The shortcut key to select a single character in MS Word is
- A. Ctrl+S
  - B. Shift+S
  - C. Ctrl+Right Arrow key
  - D. Shift+Right Arrow key
18. Which of the following page layout options belongs to the orientation of a document?
- A. Legal
  - B. Letter
  - C. Portrait
  - D. Normal
19. Which of the following tabs contains the options for adding page numbers to a document?
- A. Home
  - B. Insert
  - C. Design
  - D. Layout
20. Which of the following are the features of a word processor?
- I. Spell check of words
  - II. Inserting pictures and tables
  - III. Changing the page orientation
  - IV. Data filtering and visualisation
- A. I and IV
  - B. II and IV
  - C. I, II and III
  - D. II, III and IV
21. A transmission in which a data is transmitted through block by block method is known as
- A. satellite transmission.
  - B. microwave transmission.
  - C. synchronous transmission.
  - D. asynchronous transmission.

22. A physical pathway that is used to deliver the message between sender and receiver is
- A. medium.
  - B. set of rules.
  - C. message.
  - D. bandwidth.
23. The component of a communication system that serves as the intermediary to ensure the proper formatting and interpretation of exchanged data is
- A. sender.
  - B. receiver.
  - C. protocol.
  - D. transmission medium.
24. All of the following are the characteristics of a good communication system EXCEPT
- A. protocol.
  - B. delivery.
  - C. accuracy.
  - D. timeliness.
25. On converting 3 Mib (Mebibyte) into Kibibyte, the value will be
- A. 3000 Kib.
  - B. 3072 Kib.
  - C. 3000000 Kib.
  - D. 3145728 Kib.
26. If the bit rate of the signal is 2000 bps and each signal unit carries 2 bits, then the baud rate of the signal will be
- A. 100
  - B. 1000
  - C. 1020
  - D. 4000
27. If the strength of a signal falls off when the distance increases, then the type of transmission impairment will be
- A. cross talk.
  - B. distortion.
  - C. attenuation.
  - D. amplification.
28. The type of network in which multiple employees connect to a central system for resources and services is
- A. wide area network.
  - B. peer-to-peer network.
  - C. client/ server network.
  - D. point-to-point network.

29. Consider the given properties of topology.

- Easy to detect errors
- Easy to add or remove nodes
- Network configuration is based on central hub

Based on the given properties, the network topology is identified as

- A. bus topology.
- B. star topology.
- C. ring topology.
- D. mesh topology.

30. Radio broadcasting and transmission of data from a computer to a printer are examples of

- A. simplex transmission.
- B. full-duplex transmission.
- C. half-duplex and simplex transmission respectively.
- D. half-duplex and full-duplex transmission respectively.

31. A student wrote the following four statements about computer networks in an exam.

- I. It allows sharing of a software
- II. It allows sharing of the internet.
- III. It allows sharing of small files only.
- IV. It allows sharing of resources without transmission media.

Which of these statements are TRUE?

- A. I and II
- B. I and III
- C. II and IV
- D. III and IV

32. If a company is providing high speed DSL to the employees in a campus, then the type of network it must be using is

- A. local area network (LAN).
- B. wide area network (WAN).
- C. personal area network (PAN).
- D. metropolitan area network (MAN).

33. Watching a movie on television and text messaging on a mobile phone are the examples of

- A. full-duplex transmission.
- B. half-duplex transmission.
- C. simplex and full-duplex transmissions respectively.
- D. simplex and half-duplex transmissions respectively.

34. If we want to connect computers and other devices across the world, then the type of network used will be
- A. bluetooth network
  - B. wide area network (WAN).
  - C. personal area network (PAN).
  - D. metropolitan area network (MAN).
35. The type of website that provides the animations, tutorials, graphics and text for learning is
- A. web portal.
  - B. news website.
  - C. educational website.
  - D. informational website.
36. Which of the following is/ are NOT the character entity/ ies in HTML?
- I. p
  - II. br
  - III. &nbsp;
- A. I only
  - B. III only
  - C. I and II
  - D. II and III
37. The HTML code to display  $X^9+Y_3*Z^6$  is
- A. `X<sup>9</sup>+Y<sub>3</sub>*Z <sup>6</sup>`
  - B. `X<sub>9</sub>+Y<sup>3</sup>*Z<sub>6</sub>`
  - C. `<sup>X9</sup>+<sub>Y3</sub>*<sup>Z6</sup>`
  - D. `<sub>X9</sub>+<sup>Y3</sup>*<sub>Z6</sub>`

Use this information to answer Q.38 and Q.39.

Consider the given text.

Click here to open LinkedIn

38. The HTML code to make the hyperlink of the given text is

A	<code>&lt;a href="https://www.linkedin.com/"&gt;&lt;a&gt;Click here to open LinkedIn &lt;/a&gt;</code>
B	<code>&lt;a href=https://www. linkedin.com/&gt;Click here to open LinkedIn &lt;/a&gt;</code>
C	<code>Click here to open LinkedIn &lt;a href="https://www. linkedin.com/"&gt;</code>
D	<code>&lt;a&gt;Click here to open LinkedIn &lt;/a&gt; &lt;a href=https://www. linkedin.com/&gt;</code>

39. The HTML code to show this text in magenta color over white background is

<pre>&lt;body style="background-color white;"&gt; &lt;p style="color magenta"&gt;Click here to open LinkedIn&lt;/p&gt;</pre>	<pre>&lt;style="background color&lt;white&gt;;"&gt; &lt;p style="color&lt;magenta&gt;"&gt; Click here to open LinkedIn &lt;/p&gt;</pre>
A	B
<pre>&lt;style="background color=white;"&gt; &lt;p style="color=magenta"&gt; Click here to open LinkedIn &lt;/p&gt;</pre>	<pre>&lt;body style="background-color:white;"&gt; &lt;p style="color:magenta;"&gt;Click here to open LinkedIn&lt;/p&gt;</pre>
C	D

40. The first part of a URL is a

- A. protocol.
- B. file path.
- C. domain name.
- D. top level domain.

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