FINALPREPS ASSESMENTS AND EVALUATIONS

Mock Examination for B.E.C.E Candidates

February 2026

COMPUTING 2 & 1
(ESSAY AND OBJECTIVE TEST)

2 hours

Name: .....

Index Number: .....

INSTRUCTIONS

Do not open this booklet until you are told to do so. While you are waiting, read and observe the following instructions carefully. Write your name and index number in ink in the spaces provided above.

This booklet consists of two papers. Answer Paper 2 which comes first, in your answer booklet and Paper 1 on your Objective Test answer sheet provided. Paper 2 will last 75 minutes after which the answer booklet will be collected. Do not start Paper 1 until you are told to do so. Paper 1 will last 45 minutes.

INSTRUCTIONS: *This paper is made up of two parts,* **Paper 1** *and* **Paper 2**. *You are to answer* ***all*** *questions in* **Paper 1**. **Paper 2** *is made up of two Sections,* ***A*** *and* ***B.*** *Answer all questions in Section* ***A (24 marks)*** *and any* ***three (3)*** *questions from* ***Section B (36 Marks)***. *The total mark for this paper is* ***100***.

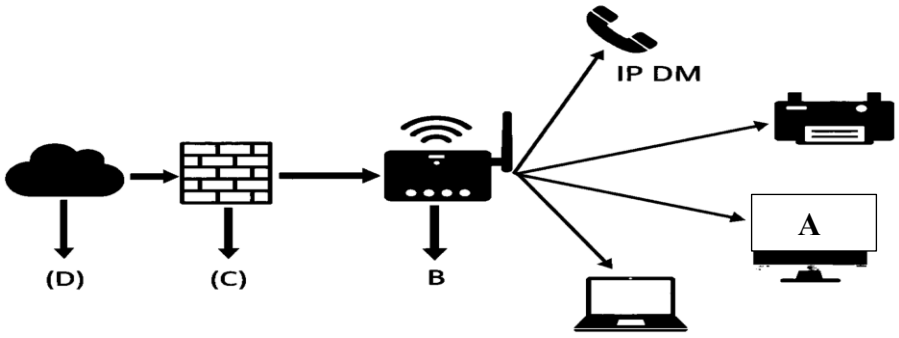
PAPER 2 (ESSAY) – [60 marks]

SECTION A – [24 marks]

Answer Question 1 (Compulsory)

The Information Technology (IT) Coordinator at Aqua Memorial High School has just finished setting up a new computer laboratory. To ensure students can research safely, he installed a security system to guard the school's connection to the World Wide Web. After the setup, the computing teacher used a program to record the scores of students who participated in the first practical test.

a) Use the diagram of the school's new network below to answer the questions that follow**:**



(i) Identify the parts labelled **A, B, C,** and **D**. **[4marks]**

(ii) Which device in the scenario acts as the "security system" to protect the network? [**3marks**]

(iii) State the function of the device labelled **B? [2marks]**

(iv) List two (2) advantages the school will get from connecting their computers in this network. **[4marks]**

(iv) A student connects a laptop without a cable. Which device enables this wireless connection**?** **[3marks]**

(b)i Outline two ways to stay safe when browsing the Internet. **[4 marks]**

(ii) State two examples of spreadsheet software. **[2 marks]**

(c) Give one advantages of networking computers. **[2 marks]**

SECTION B – [36 marks]

Ama is a secretary at a local clinic. She needs to send a medical report to a doctor in the city and also keep a hidden record for the clinic's administrator without the doctor knowing.

2. (a) Based on the scenario, outline the steps Ama should follow to add the medical report as an attachment to her email**.** **[3 marks]**

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b) Why would Ama use the Bcc (Blind Carbon Copy) field for the administrator instead of the Cc field? State two (2) reasons **[2 marks]**

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c) State two importance of using VLEs in learning. **[4marks]**

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d) What is a Virtual Learning Environment (VLE) **[3 marks]**

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3. The "Future Leaders" JHS has noticed that their school computer records are being changed by an unknown person. Some student names have been deleted, and grades have been edited.

(a) Briefly explain the following data threats as they apply to the school's situation: **[8 marks]**

(i) Data Fabrication

(ii) Data Interruption

(iii) Data Interception

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(iv) Data Modification

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b) The school clerk enters the following data into the computer. Identify the correct Data Type for each: **[4marks]**

#	DATA	DATA TYPE
i	True or false	
ii	Age of a person	
iii	Name of a person	
iv	Date of birth of a person	

4. a) What is a robot artefact. **[3 marks]**

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b) Briefly explain three advantages of robots in industries. **[6 marks]**

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c) Educate your friend on how to create a strong password. **[3 marks]**

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5. **a)** State two functions of the Central Processing Unit (CPU). **[2 marks]**

b) State two safety rules in the computer laboratory. **[4 marks]**

c) State the six steps in assembling a robot artefact. **[6 marks]**

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PAPER 1

OBJECTIVES – [40 Marks]

1. The process of dividing a disk into tracks and sectors is called?
A. Tracking B. Allotting
C. Crashing D. Formatting

2. Which generation of computers uses Very Large-Scale Integration (VLSI)?
A. First B. Second C. Third D. Fourth

3. How much is one terabyte (1 TB) equal to?
A. 1024 megabytes B. 1024 bytes
C. 1024 kilobytes D. 1024 gigabytes

4. Which of the following number formats should be used for the data "Ghc100"?
A. Date B. Time C. Number D. Currency

5. What kind of attempts are made by individuals to obtain confidential information from a person by falsifying their identity?
A) Computer viruses B) Spyware scams
C) Phishing scams D) None of the above

6. Which protocol is used for sending email messages?
A) HTTP B) SMTP C) FTP D) IMAP

7. The application of game principles to solve real-world problems is known as...
A. Entertainment B. Gaming
C. Gameplay D. Gamification

8. Which of the following devices is NOT a page printer?
A. Bubble printer B. Inkjet Printer
C. Laser printer D. Dot Matrix printer

9. The shortcut key to open My Computer (File Explorer) is...
A) Windows Logo + E B) Windows Logo + A
C) Windows Logo + M D) None of the above

10. What is the purpose of Windows File Explorer?
A) To manage files and folders
B) To open websites
C) To send emails
D) To configure hardware

11. Which AI tool is commonly used for language translation?
A) Image Recognition
B) Pattern Recognition
C) Natural Language Processing
D) Predictive Analysis

12. Convert the decimal 453 to a Binary number?
A 100001101 B) = 110001101
C) 001110111 D) 110000011

13. What is a biometric security feature?
A) Passwords B) Antivirus
C) Firewall D) Face recognition

14. Which programming language is widely used for AI?
A) HTML B) CSS C) JavaScript D) Python

15. What is the primary function of a debugger in programming?
A) Write code B) Identify and fix errors
C) Format code D) Execute code

16. What is the main purpose of a firewall?
A) Monitor internet connection
B) Filter and block unauthorised access
C) Increase download speed
D) Boost Wi-Fi signal

17. What is the main function of a driver?
A) Control hardware components
B) Manage internet connectivity
C) Improve graphics
D) Manage email

18. What is the main purpose of a blog?
A) File storage
B) Online communication
C) Sharing news and information
D) Internet browsing

19. What does a virtual reality headset simulate?
A) Real-world environments B) Online searches
C) Office work D) Gaming codes

20. What does IoT stand for?
A) International of Technology
B) Internet of Tools
C) Internet of Things
D) Interface of Technology

21. Which shortcut closes a window in Windows OS?
A) Ctrl + Z B) Ctrl + C
C) Alt + F4 D) Ctrl + A

22. What is an example of green computing?
A) Using AI
B) Reducing energy consumption
C) Faster internet connection
D) Increased screen brightness

23. What function returns the current date in Excel?
A) NOW () B) DATE ()
C) TODAY () D) TIME()

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24. What is an example of phishing?
A) Hacking software
B) Pop-up ads
C) Firewall protection
D) Fake emails asking for sensitive data

25. What is the function of encryption?
A) Speed up data transfer
B) Improve connectivity
C) Secure data transmission
D) Block spam

26. What does the "Undo" shortcut (Ctrl + Z) do in MS Word?
A) Deletes the document
B) Reverses the last action
C) Saves the document
D) Copies the document

27. Which term refers to the collection of data and traces a person leaves online through their digital activities?
A) Digital footprint B) Cyberbullying
C) Digital shadow D) Phishing

28. Which symbol represents the processing stage in a flowchart?
A) Rectangle B) Oval
C) Diamond D) Circle

29. In PowerPoint, which feature allows you to capture an image of your screen?
A) Snapshot B) Screenshot
C) Screen View D) Capture

30. Which file extension is used for a Word document?
A) .txt B) .xls
C).docx D) .pdf

31. Which term refers to any potential danger or risk that can lead to the loss, damage, or unauthorised access of data?
A) Data backup B) Data threat
C) Data recovery D) Data encryption

32. What does the term "Ergonomics" refer to in computing?
A) Proper network configuration
B) Designing a comfortable and efficient work environment
C) Managing computer files
D) Developing software applications

33. What is the purpose of adjusting brightness and contrast in PowerPoint?
A) To adjust slide transitions
B) To resize an image
C) To improve image quality
D) To add animation

34. Which component of a computer manages all hardware and software resources?
A) Processor
B) RAM
C) Operating System
D) Hard Drive

35. In MS Word, which feature allows you to create a table with predefined styles?
A) Quick Table
B) Format Cells
C) Table Insert
D) AutoTable

36. Which of the following is an example of a microblogging application?
A) Facebook
B) WhatsApp
C) Tumblr
D) Zoom

37. In a programming language, which operator is used for comparison?
A) = B) == C) := D) ===

38. Which of the following is an example of an information hacking technique?
A) Phishing
B) Data backup
C) File compression
D) Cloud storage

39. Which type of sensor is used in robotics to detect objects?
A) Motion sensor
B) Proximity sensor
C) Sound sensor
D) Temperature sensor

40. Which social media platform is primarily used for professional networking?
A) Facebook
B) LinkedIn
C) Instagram
D) Twitter

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