FINALPREPS ASSESMENTS AND EVALUATIONS

Mock Examination for B.E.C.E Candidates

December 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)*

1. A teacher wants to create a simple program that takes a student's marks as input and assigns a grade based on a scale. The teacher writes the following Python code to achieve this:

```
marks = float(input("Enter your marks: "))

if marks > 100:
    print("Enter an integer between -1 and 101")
elif marks >= 90:
    print("Grade: A")
elif marks >= 80:
    print("Grade: B")
elif marks >= 70:
    print("Grade: C")
elif marks >= 60:
    print("Grade: D")
else:
    print("Grade: F")
```

Use the code above to answer the following questions:

a) Identify the variable used in the code. [2 marks]

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b) Mention one data type used in the code. [2 marks]

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c) State two functions used in the code. [4 marks]

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d) Identify the operator used in the code. [2 marks]

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e) Write down the assignment statement in the code. [2 marks]

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f) What type of conditional statement is used in the code? [2 marks]

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g) What will be the output if the user enters 85? [2 marks]

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h) Modify the code so that:

i. If the user enters a negative number, it prints `"Invalid input. Please enter a positive number"`

ii. If marks are between **50 and 59**, it prints `"Grade: E"`

iii. If marks are **less than 50**, it prints `"Grade: F"` [8 marks]

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2. a) Define pseudocode [3 marks]

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b) A supermarket wants to calculate total sales using a program. Complete the table of operators and their function that can be used in the program. [5 marks]

Programming Operator	Function/Meaning
	Exponent
	Equation
	Less than or equal to
=	

c) Convert $\mathbf{2F_{16}}$ to decimal numeral. [4 marks]

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3. a) State one application of robots in the following sectors. **[6 marks]**

i. Agriculture

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ii. Medicine

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iii. Manufacturing

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b) List the steps you would use to insert a table into an MS Word document. **[4 marks]**

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c) Mention two types of sensors used by robots. **[4 marks]**

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4. a) Define control structure as used in programming. **[3 marks]**

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b. Mention three types of control structures used in coding. **[3 marks]**

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c. Write down two importance of blogs. **[4 marks]**

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d. List two Functions used in Excel. **[2 marks]**

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5. a) What is an IP address? **[3 marks]**

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b) State two differences between IPV4 and IPV6. **[4 marks]**

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c) Briefly *Formula* as used in electronic spreadsheet to your friend. **[3 marks]**

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b) By stating the acronym and the full meaning, identify two communication protocols. **[2 marks]**

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PAPER 1

OBJECTIVES – [40 Marks]

1. Mr. Mempeasem wants to safeguard his new computer against excessive heating. One thing he should do is:
A. charge the battery all the time
B. keep many programs running most of the time
C. update BIOS and drivers
D. keep the computer inside a closed cabinet

2. A robot in a factory moves objects on a conveyor belt. Which part of a robot is responsible for movement?
A. Sensor B. Actuator
C. Controller D. Display screen

3. Which is an example of a LAN?
A. The internet
B. Satellite communication
C. A school computer lab
D. A mobile phone hotspot

4. Which part of a microprocessor directs all operations?
A. ALU B. RAM C. Control Unit D. Hard disk

5. Luggage check-ins at the airport use barcodes. This is because:
A. barcodes ensure bags go to every destination
B. computers can think like humans
C. computers are made of barcodes
D. barcodes enable quick and accurate tracking of luggage with minimal errors

6. Quantum computers are faster because they:
A. have big screens
B. use classical bits only
C. perform multiple calculations simultaneously
D. use more RAM

7. Which device is used to assist individuals with hearing impairments?
A. Text-to-speech software
B. Braille embosser
C. Screen reader
D. Computers with visual output

8. A flowchart in school is used to:
A. draw cartoons
B. show steps in a process using symbols
C. send an email
D. play music

9. A company wants to connect offices across different cities. WAN is mostly used for:
A. interconnecting cities or countries B. homes
C. connecting printers D. offices in one building

10. A student wants to connect a phone to a laptop for file transfer. Which network is used?
A. PAN B. LAN C. WAN D. MAN

11. Which input device captures handwritten signatures electronically?
A. Signature pad B. Microphone
C. Scanner D. Barcode reader

12. In a mesh topology, how is each device connected?
A. Connected to every other device
B. Connected to only two devices
C. Connected to a central switch
D. Not connected

13. In programming, a variable is used to:
A. scan documents B. store data
C. play audio D. print documents

14. Artificial intelligence can:
A. perform miracles
B. pray to God
C. recognize faces
D. check news in human language

15. The registers in a microprocessor are used to:
A. store temporary data B. control screen brightness
C. perform printing D. play sounds

16. Which symbol represents a decision in a flowchart?
A. Circle B. Rectangle C. Diamond D. Arrow

17. A malware is a software that:
A. solves hardware problems
B. is terminal installed on a computer
C. solves other software problems
D. helps to detect viruses

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18. The main function of Windows OS is to:
A. decorate the desktop
B. manage files, memory, and hardware
C. charge the battery
D. connect printers

19. A qubit in quantum computing is:
A. a standard USB
B. a programming language
C. a type of classical bit
D. a basic unit of quantum information

20. A school chooses star topology for its lab. What is the main benefit?
A. Fast and easy to manage B. Uses satellite dishes
C. Expensive D. All devices are wireless

21. The taskbar in Windows is used to:
A. Type documents
B. Paint pictures
C. Display weather
D. Launch and manage running applications

22. Which hardware connects different networks together?
A. Hub B. Router C. Switch D. NIC

23. Superposition in quantum computing means:
A. Data is deleted
B. A chip sleeps
C. A qubit can be 0 and 1 at the same time
D. The computer freezes

24. The main benefit of ergonomics in a workstation setup is to:
A. increase storage capacity
B. reduce discomfort and injury
C. enhance internet speed
D. improve software performance

25. Which device converts digital data to signals over telephone lines?
A. Router B. Modem C. NIC D. Repeater

26. Which part of a robot acts like its brain?
A. Actuator B. Battery C. Sensor D. Controller

27. The ALU in a microprocessor is responsible for:
A. cooling the chip
B. connecting to the internet
C. performing arithmetic and logic operations
D. displaying colours

28. Managing your digital footprint properly requires that you:
A. post everything freely
B. remove private settings
C. advertise your footprint
D. refrain from posting just anything

29. Which of these is a programming language?
A. Gmail B. C++ C. Excel D. Snapchat

30. A switch in a computer network is used to:
A. switch on all computers
B. connect devices in a LAN
C. switch on a particular computer
D. connect devices in a WAN

31. In a spreadsheet, the function to sum values greater than 50 is:
A. =COUNTIF(B2:B5,"<50")
B. =COUNTIF(B:B,"<50")
C. =SUMIF(B2:B5,">50")
D. =SUMIF(B:B,">50")

32. Which symbol represents start or end in a flowchart?
A. Triangle B. Ellipse or oval
C. Square D. Diamond

33. Which network topology provides the most fault tolerance?
A. Mesh B. Ring C. Star D. Bus

34. Which type of network is the internet?
A. WAN B. LAN C. PAN D. CAN

35. What is the main function of a microchip?
A. Print documents B. Store and process data
C. Display graphics D. Power the computer

36. Which of these is not an example of an operating system?
A. Windows 11 B. Microsoft Word
C. Linux D. Android

37. A column in a data table is called a:
A. Record B. Field C. Unit D. Row

38. The registers in a microprocessor are used to:
A. Play sounds
B. Control screen brightness

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C. Perform printing
D. Store temporary data

39. Entanglement in quantum computing means:
A. Computers become tangled
B. Qubits are linked and affect each other
C. Screens break
D. Cables are crossed

40. A Personal Area Network (PAN) is typically used for:
A. file sharing across countries
B. global communication
C. connecting a phone to a laptop via Bluetooth
D. connecting multiple schools

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