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BANFES.ai PLACEMENT ASSESSMENT

Computing, Programming, Data and Artificial Intelligence

Level 2 Entry Placement Test

Test 2 of 3 · Candidate Booklet

DURATION	QUESTIONS	SECTIONS	ANSWERS
165 minutes	150 MCQ	A Core · B Determining	One of A–D

Candidate full name	
Candidate ID	
Date of test	
Test centre / online session	
Selected test	☐ Test 1 Pre-Level 2 ☒ Test 2 Level 2 Entry ☐ Test 3 Level 3–4
Start time / finish time	
Invigilator name and signature	

Do not turn the page until the invigilator tells you to start.

This booklet is confidential assessment material. It must be returned at the end of the test and must not be copied, photographed or shared.

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About this test

Purpose

This test identifies candidates who can enter INTERNATIONAL Level 2 directly rather than first taking the BANFES Pre-Level 2 Foundation Course. It assesses practical digital productivity, computational thinking, introductory programming through pseudocode, spreadsheet and data reasoning, and responsible, safe use of technology including AI tools. Very strong results lead to an invitation to sit Test 3; they do not by themselves place a candidate in Level 3 or Level 4.

Who this test is for

Candidates with some everyday digital experience who may have met basic programming or spreadsheet work at school, at work or through self-study.

Test structure

Section	Questions	What it assesses	Suggested time
A Core Skills	1–120 (120)	Broad readiness across all domains listed below	about 115 minutes
B Determining	121–150 (30)	Harder, multi-step questions on transfer, reasoning, debugging, interpretation and decision-making	about 50 minutes
Total	**150**	Each question has four options (A–D) and exactly one correct answer.	**165 min**

Content areas

Section	Content area	Questions	Number
A	Practical digital literacy and productivity tasks	1–25	25
A	Computational thinking, decomposition, patterns, algorithms and debugging	26–55	30
A	Introductory programming: conditions, loops, variables and pseudocode	56–80	25
A	Basic data and spreadsheet reasoning	81–95	15
A	Digital safety, ethics, responsible AI use and study skills	96–110	15
A	Integrated problem-solving tasks	111–120	10
B	Multi-step pseudocode with conditions and loops	121–130	10
B	Debugging simple programs	131–136	6
B	Interpreting small datasets and spreadsheets	137–141	5
B	Ethical and cybersecurity decisions with competing options	142–146	5
B	Transfer problems in unfamiliar contexts	147–150	4

Possible outcomes

Result	Placement recommendation
Below threshold	Pre-Level 2 Foundation Course
Meets threshold	Enter INTERNATIONAL Level 2

Result	Placement recommendation
High performance	Invite to sit Test 3 (no automatic Level 3/4 placement)

Your result is a placement recommendation, not a pass or fail. Answer honestly and on your own so that you are placed where you will learn best.

Instructions for candidates

1. The test has 150 multiple-choice questions in two sections: Section A Core Skills (1–120) and Section B Determining (121–150).
2. Each question has four options, A, B, C and D. Exactly one option is correct. Choose the best answer.
3. Every question is worth one mark. There is 30% penalty for a wrong answer, so answer every question carefully.
4. Read all of the information given (text, tables, code, diagrams and screenshots) before answering. Many questions depend on small details in that information.
5. Pseudocode in this booklet follows the conventions on the next page. Read them before you start.
6. If a question seems unclear, choose the best answer from the information given and continue. Invigilators cannot explain questions.

How to read the questions

Questions use realistic but fictional people, organisations, websites and data. Tables show small extracts of spreadsheets or records. Pseudocode is shown in a grey box. Spreadsheet formulas use the common form, for example =SUM(B2:B5).

Pseudocode conventions used in this test

Pseudocode is a way of writing program steps in structured English. The following notation is used in every pseudocode question.

Notation	Meaning	Example
SET x TO 5	Store the value 5 in the variable x (replacing any old value)	SET total TO total + 2
INPUT x / OUTPUT x	Read a value from the user / show a value	OUTPUT "Hello"
= ≠ < > ≤ ≥	Comparisons (inside IF, WHILE and UNTIL)	IF age ≥ 18 THEN
AND OR NOT	Combine or reverse conditions	IF a > 0 AND b > 0 THEN
IF … THEN … ELSE IF … ELSE … END IF	Only the FIRST true branch runs	see questions
FOR i FROM 1 TO 5 … END FOR	Repeat with i = 1, 2, 3, 4, 5 (both ends included)	FOR i FROM 0 TO 10 STEP 2
WHILE condition … END WHILE	Check first; repeat while the condition is true	WHILE n > 1
REPEAT … UNTIL condition	Run at least once; stop when the condition becomes true	UNTIL guess = secret
a MOD b / a DIV b	Remainder after division / whole-number division	17 MOD 5 = 2; 17 DIV 5 = 3
&	Join text together	"Item " & 3 gives "Item 3"
list[0], LENGTH(list)	First item (positions start at 0) / number of items	[4, 9, 2][1] = 9
FUNCTION f(a) … RETURN v … END FUNCTION	A named block that receives values and returns a result	RETURN a * 2

A few questions use short Python extracts; these are clearly labelled. In Python, == compares values, = stores a value, and indentation shows which lines belong to a block.

Declaration: I confirm that I will complete this test on my own, without help from any person, AI tool, website or unauthorised material.

Candidate signature: _____ Date: _____

SECTION A

Core Skills Section

Questions 1–120

120 questions across 6 content areas.

Suggested time: about 115 minutes.

Read each question and any table, code or picture carefully before choosing.

Practical digital literacy and productivity tasks Questions 1–25

1 A community centre must email 120 volunteers about a schedule change. Volunteers should not see each other's email addresses. Where should the 120 addresses go?

- **A** Split across To and CC so that each field has fewer addresses
- **B** In the To field, because every volunteer must receive the message
- **C** In the CC field, because CC is used for copies
- **D** In the BCC field, with the centre's own address in the To field

2 Sofia's manager emailed her a file called contract.pdf. Sofia now needs to send the same file to the accountant, with a short note. Which action is most suitable?

- **A** Write a new email to the accountant saying "see the manager's email"
- **B** Forward the manager's email to the accountant and add her note
- **C** Reply all, so that the manager and accountant both see it
- **D** Reply to the manager and type the accountant's name in the message

3 Kofi is writing a 40-page report and wants a table of contents that updates automatically when he adds sections. What must he do first?

- **A** Make each section title bold and 16 pt by hand
- **B** Apply built-in Heading styles (Heading 1, Heading 2) to his section titles
- **C** Type the contents list himself, with page numbers
- **D** Write every section title in capital letters

4 Two colleagues will edit Ana's policy document. Ana wants to see each change and decide whether to keep it. Which feature should they use?

- **A** Read-only mode
- **B** Track Changes (or suggestion mode)
- **C** Save as PDF before editing
- **D** Spell check

5 A college must produce 200 certificates, each with a different learner's name and course from a spreadsheet. What is the most efficient method?

- **A** Copy the template 200 times and type each name
- **B** Put all 200 names on one shared certificate and email each learner a PDF copy of it
- **C** Print one certificate and write the names by hand
- **D** Mail merge: link a certificate template to the spreadsheet and generate all 200

6 Yesterday a teammate accidentally deleted a whole section of the shared online document Grace's team is writing. What is the quickest way to get the section back?

- **A** Open the document's version history and restore or copy the section from yesterday's version
- **B** Download the document again
- **C** Press Ctrl + Z repeatedly on Grace's computer today until the deleted section comes back again
- **D** Ask everyone to rewrite the section from memory

7 A web page includes a chart showing that course enrolment rose from 120 in 2024 to 180 in 2026. Which alternative text (alt text) is most useful for someone using a screen reader?

A "A colourful chart with blue bars on a white background."

B "Image"

C "Bar chart: enrolment rose from 120 in 2024 to 180 in 2026."

D "chart_final_v2.png"

8 Omar's slide has 14 lines of 12-point text. People at the back of the room cannot read it. What is the best improvement?

A Change the text colour to light grey

B Keep all 14 lines but add an animation so that each line appears one at a time when Omar clicks

C Keep 3–4 key points in a larger font, add a simple visual, and move detail to speaker notes

D Reduce the font to 10 points so that everything fits

9 Three team members share their busy times on Thursday (meetings last one hour):

Person	Busy
Lena	09:00–11:00, 14:00–15:00
Jomo	10:00–12:00, 15:00–16:00
Arif	09:00–10:00, 13:00–14:00

Which one-hour slot is free for all three?

A 12:00–13:00

B 13:00–14:00

C 10:00–11:00

D 15:00–16:00

10 A spreadsheet lists 600 purchases from several departments. Nadia wants to see only the rows for the Kitchen department, without changing their order. What should she use?

A A filter on the Department column, set to Kitchen

B Sort by Department from A to Z

C Change the font colour of the Kitchen rows

D Delete every row that is not Kitchen

11 In a 30-page brochure, the word "Collage" was typed 57 times instead of "College". The brochure also mentions an art class called "Photo Collages". What is the safest approach?

A Correct each one by hand without searching

B Use Replace All with no options, because every "Collage" is wrong

C Delete the art class from the brochure

D Use Find and Replace with "Match whole word only", then check the results

12 A charity needs its logo on a website with a transparent background so the page colour shows around it. Which format should be used?

- **A** JPG
- **B** DOCX
- **C** PNG
- **D** TXT

13 Samir's photos are 6000 × 4000 pixels and 9 MB each. The website will show them as thumbnails 300 pixels wide. What should he do before uploading?

- **A** Resize copies of the photos to about 300 pixels wide
- **B** Upload the 9 MB originals; the website will look sharper
- **C** Zip each photo before uploading
- **D** Change the extension from .jpg to .png to make them smaller

14 Hana wants an external reviewer to comment on her draft but not change the text. Which sharing option is best?

- **A** Share as Editor, and ask the reviewer not to edit
- **B** Share with the reviewer's email address as Commenter
- **C** Email a PDF and ask for comments by phone
- **D** Share "anyone with the link" as Viewer

15 Leila scrolls down a 2,000-row spreadsheet and loses sight of the column headings. Which feature solves this?

- **A** Merge the cells in the top row
- **B** Sort the sheet by the first column
- **C** Make the top row bold
- **D** Freeze the top row

16 A sports club expects 300 registrations. Each person must give a name, age group and contact preference. Which method is most efficient and accurate?

- **A** Phone each person and write notes on paper
- **B** Share an editable spreadsheet so people type their own row
- **C** Ask each person to send an email in any format
- **D** An online form whose responses are saved automatically in a spreadsheet

17 In Tomas's form, people sometimes type letters in the "Phone number" field. What is the best fix?

- **A** Make the field optional, so that people can skip it if they are unsure of their number
- **B** Add a note saying "Please type carefully"
- **C** Add a validation rule so the field accepts only digits of the expected length
- **D** Delete the field and ask for phone numbers later

18 Priya's report is in portrait layout, but page 7 contains a wide table that needs landscape. When she changes page 7 to landscape, the whole document turns landscape. What should she do?

- **A** Save page 7 as a separate document
- **B** Make the table font very small so it fits on a portrait page
- **C** Rotate the table by 90 degrees using a text box
- **D** Insert section breaks before and after page 7 and set only that section to landscape

19 Ravi receives about 40 newsletters a week from news@citylibrary.example, which crowd his inbox. What is the most efficient solution?

- **A** Create a rule that moves emails from that sender into a "Newsletters" folder automatically
- **B** Mark every newsletter as spam, so that the email service hides all of them from his main inbox
- **C** Close his email account and open a new one
- **D** Delete each newsletter by hand every day

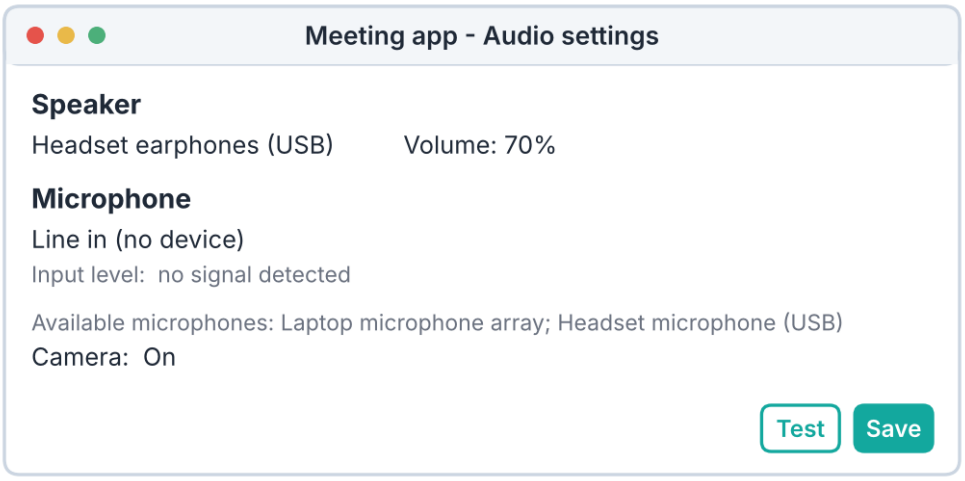
20 Mei has a scanned photo of a two-page printed letter and needs to edit the text. What is the best approach?

- **A** Use optical character recognition (OCR) to convert the image to editable text, then proofread it
- **B** Rename the image file from .jpg to .docx so that any word processor can open it and edit the text
- **C** Paste the image into a word processor and type over it
- **D** Increase the image resolution until the text becomes editable

21 Lucas double-clicks a file inside a ZIP folder, edits it, clicks Save, and closes it. When he opens the file again from the ZIP, his changes are gone. What is the most likely reason?

- **A** The file was too large to be saved back inside a compressed folder, so the save was cancelled
- **B** ZIP files are read-only on all computers
- **C** He needed to press Save twice
- **D** It was opened as a temporary copy; he should extract the ZIP first and edit that file

22 In an online meeting, nobody can hear Amina, although she can hear them. Her audio settings show:



What should she change?

A The microphone setting to "Headset microphone (USB)"

B The speaker volume to 100%

C The camera to "Off"

D The speaker setting to "Laptop speakers"

23 In a spreadsheet, cells B2:B6 are aligned to the left and each shows a small green warning triangle. =SUM(B2:B6) returns 0, although the cells show 12, 7, 30, 4 and 9. What is the most likely cause?

A The SUM formula can only add three cells at a time

B The cells are too narrow to show the full numbers

C The green triangles mean the numbers are negative

D The values are stored as text, so SUM ignores them

24 Fatima copies a column of totals calculated by formulas into a new file. In the new file the cells show #REF! errors. What should she do instead?

A Change the font of the new file

B Paste the formulas again more slowly

C Delete the column and type the totals by hand

D Use Paste Special > Values to paste the results only

25 Daniel's course app shows an error every time he uploads an assignment. Which message to IT support is most useful?

A A screenshot of the full error, the steps he followed, the time, and his device and browser

B "The app is broken again, please fix it."

C "I think the server is down."

D A photo of his whole desk showing the computer screen from far away

Computational thinking, decomposition, patterns, algorithms and debugging

Questions 26–55

26 A library wants a system that reminds people by SMS when a borrowed book is due. Which set of sub-problems is the best decomposition?

- **A** Buy phones; buy books; buy a printer
- **B** Make the system smart; make the system fast; make the system cheap; make the system popular
- **C** Send the SMS; find loans; store loans
- **D** Store loans and due dates; find loans due soon; send each SMS; record that it was sent

27 A bus timetable app must tell users when the next bus arrives at their stop. Which details are essential for this model?

- **A** Route number, order of stops, and scheduled times at each stop
- **B** Colour of the bus seats and the driver's name
- **C** The bus manufacturer and the engine size
- **D** Advertisements printed on the side of each bus

28 Matchsticks are used to build rows of squares:



1 square: 4 sticks | 2 squares: 7 sticks | 3 squares: 10 sticks

How many matchsticks are needed for a row of 20 squares?

- **A** 60
- **B** 61
- **C** 63
- **D** 80

29 An unsorted list contains 1,000 student IDs. A program checks IDs one by one from the start until it finds the target. What is the largest number of IDs it may need to check?

- **A** 1
- **B** 10
- **C** 500
- **D** 1000

30 In a guessing game, a player thinks of a whole number from 1 to 100. After each guess you are told "higher", "lower" or "correct". If you always guess the middle of the remaining range, what is the largest number of guesses you could need?

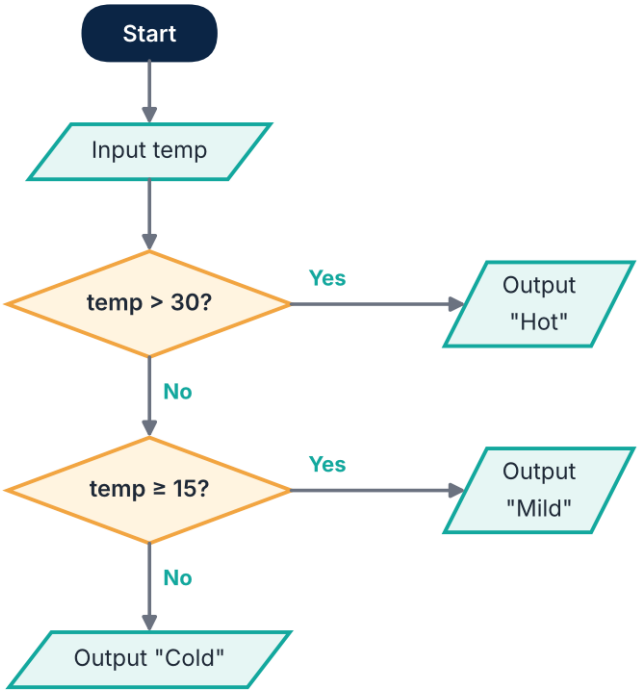
A 7

B 10

C 50

D 100

31 A weather app uses this flowchart. The input temperature is 30.



What is output?

A Hot and Mild

B Hot

C Mild

D Cold

32 An algorithm should calculate the average of any list of marks:

```
SET total TO 0
FOR EACH mark IN marks
    SET total TO total + mark
END FOR
SET average TO total / 5
OUTPUT average
```

It works for one class but gives wrong results for others. What is the bug?

A The loop should be FOR EACH mark IN total

B total should start at 1 instead of 0

C OUTPUT should come before the loop

D It divides by 5 instead of by the number of marks in the list

33 SET x TO 1. Repeat 4 times: SET x TO x + x. What is the final value of x?

A 5

B 8

C 16

D 32

34 Selection sort works like this: in pass 1, find the smallest value and swap it with the value in position 1; in pass 2, find the smallest value from position 2 onwards and swap it into position 2; and so on. Start list: [7, 3, 9, 1, 5]. What is the list after TWO passes?

A [3, 7, 9, 1, 5]

B [1, 3, 9, 7, 5]

C [1, 7, 9, 3, 5]

D [1, 3, 5, 7, 9]

35 A college login log shows the following for one account:

Time	Source	Result
10:02:01	203.0.113.7	Failed
10:02:03	203.0.113.7	Failed
10:02:05	203.0.113.7	Failed
10:02:07	203.0.113.7	Failed
10:02:09	203.0.113.7	Failed

What pattern best explains the data?

A The user forgot the password and is typing very carefully

B An automated program is trying many passwords from one address, every 2 seconds

C The college's network is down

D Five different people are trying to log in

36 A library charges late fees using this rule:

Condition	Fee
First 7 days late	$0.10 per day
Each day after the first 7	$0.25 per day
Book damaged	$5.00 extra

A book is returned 9 days late and damaged. What is the total fee?

A $1.20

B $5.90

C $6.20

D $7.25

37 A ticket machine gives change using the largest coin possible each time. It has coins of 50, 20, 10 and 5 cents. How many coins does it give for 85 cents?

A 3

B 4

C 5

D 6

38 A different machine has coins of 1, 3 and 4 units. It must give 6 units of change using the fewest coins. Which statement is correct?

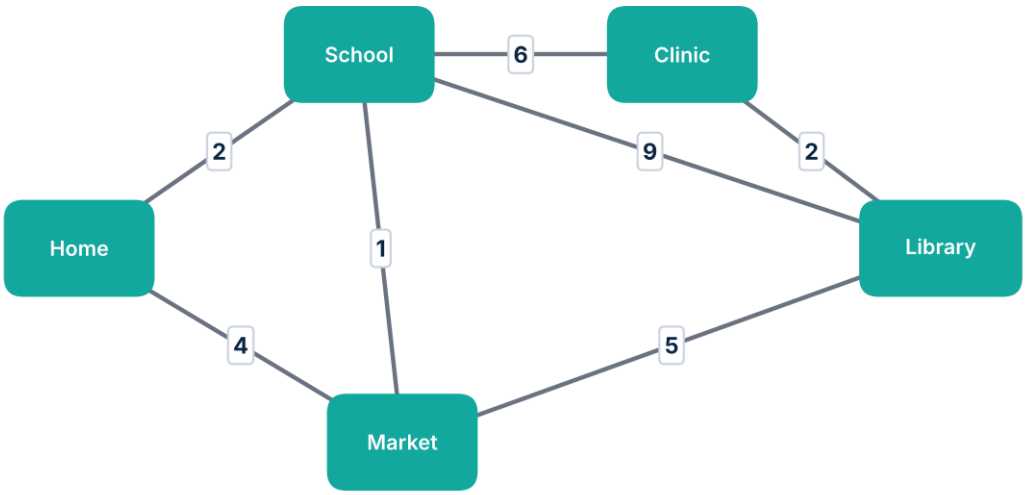
A Largest-first gives 4 + 1 + 1 (3 coins), but 3 + 3 (2 coins) is better

B Largest-first gives 3 + 3, which is the best answer

C There is no way to give 6 units with these coins

D Largest-first always gives the fewest coins

39 The map shows walking times in minutes between places in a town.



Which route from Home to Library takes the least time?

A Home → School → Library

B Home → School → Clinic → Library

C Home → School → Market → Library

D Home → Market → Library

40 A developer has written a program that calculates the area of one rectangle, 4 m by 5 m. The client now needs areas for many rooms of different sizes. What is the best improvement?

A Copy the program once for every room and change the numbers

B Write one function that takes length and width as inputs and returns length × width

C Store the answer 20 and print it for every room

D Keep the program and ask the client to measure only 4 m by 5 m rooms

41 A program gives grades. Test results are shown below.

```
IF mark ≥ 50 THEN
    OUTPUT "Pass"
ELSE IF mark ≥ 70 THEN
    OUTPUT "Distinction"
ELSE
    OUTPUT "Fail"
END IF
```

Mark	Expected	Actual
45	Fail	Fail
60	Pass	Pass
85	Distinction	Pass

What is the cause of the wrong result for 85?

A The second test should use > 70 instead of ≥ 70 to avoid the overlap between the two conditions

B 85 is too large for the program to handle

C The Fail branch should be first

D The ≥ 50 test is checked first, so marks of 70 or more never reach the Distinction test

42 An online shop filter shows items where Size = M AND Price < 20.

Item	Size	Price
T-shirt	M	15
Hoodie	M	32
Cap	S	9
Socks	M	6
Scarf	L	18

How many items are shown?

A 1

B 2

C 3

D 4

43 A traffic system must store one of 5 light states as a binary code. What is the smallest number of bits needed?

A 1

B 2

C 3

D 5

44 A panel has four lights with place values 8, 4, 2 and 1 (left to right). On = 1, Off = 0. The lights show On, Off, On, On. What number is shown?

A 3

B 11

C 13

D 1011

45 A program prints a triangle of stars: row 1 has 1 star, row 2 has 2 stars, and so on up to row 6. How many stars are printed altogether?

A 6

B 15

C 21

D 36

46 A team is building a simple quiz app with these sub-tasks: (P) design the question data format, (Q) write the scoring code, (R) build the question screen, (S) write the questions. Which sub-task should be finished first because the others depend on it?

A Q: write the scoring code

B S: write the questions

C R: build the question screen

D P: design the question data format

47 This algorithm should find the largest value in a list:

```
SET largest TO 0
FOR EACH n IN values
    IF n > largest THEN
        SET largest TO n
    END IF
END FOR
OUTPUT largest
```

For which list does it give a WRONG answer?

A [-8, -3, -12]

B [0, 5, 5]

C [4, 9, 2]

D [7]

48 Trace this algorithm:

```
SET n TO 10
SET count TO 0
WHILE n > 1
    SET n TO n DIV 2
    SET count TO count + 1
END WHILE
OUTPUT count
```

A 2

B 3

C 4

D 5

49 A learning app awards points on each day of a streak: 2, 3, 5, 8, 12, 17, … How many points are awarded on the next day?

A 22

B 23

C 25

D 29

50 Three print jobs arrive at the same time: A takes 10 minutes, B takes 2 minutes, C takes 4 minutes. One printer prints them one at a time. Which order gives the LOWEST average waiting time before each job starts?

A B, C, A

B A, C, B

C A, B, C

D C, A, B

51 A login system should lock an account after 3 wrong passwords:

```
SET attempts TO 0
REPEAT
    INPUT password
    IF password = correct THEN
        OUTPUT "Welcome"
    ELSE
        SET attempts TO 0 + 1
    END IF
UNTIL password = correct OR attempts = 3
```

Testing shows the account is never locked. Why?

A The OR in the UNTIL line should be AND

B The REPEAT loop runs only once

C "Welcome" is output before checking the password

D attempts is set to 1 on every wrong password, so it never reaches 3

52 A small library is designing a record for each book. Which field is LEAST relevant?

A Current status (on loan / available)

B Title

C The number of times the librarian has dusted the shelf

D ISBN

53 A delivery company calculates fees with this rule: "Base fee $4. Add $1 for each km over 5 km. Orders over $60 have free delivery." Which inputs does the fee algorithm need?

A Customer name and distance

B Distance only

C Distance in km and order value

D Order value only

54 An alarm sounds if (door open AND system armed) OR smoke detected.

Case	Door open	Armed	Smoke
1	Yes	No	No
2	No	Yes	Yes
3	Yes	Yes	No
4	No	No	No

In which cases does the alarm sound?

A Case 3 only

B Cases 1, 2 and 3

C Cases 1 and 3

D Cases 2 and 3

55 A new study app has 3 users on day 1, and the number of users doubles every day. On which day does the number of users first go above 100?

A Day 6

B Day 5

C Day 7

D Day 34

Introductory programming: conditions, loops, variables and pseudocode

Questions 56–80

56 Trace this pseudocode:

```
SET a TO 4
SET b TO 9
SET a TO b
SET b TO a
OUTPUT a & ", " & b
```

What is output?

A 4, 9

B 9, 9

C 4, 4

D 9, 4

57 A program stores phone numbers such as 0712 345 678. Which data type is most suitable?

A Text (string)

B Boolean

C Decimal (real) number

D Integer

58 A greenhouse program runs:

```
IF temperature > 25 AND humidity > 70 THEN
    OUTPUT "Warning"
ELSE
    OUTPUT "OK"
END IF
```

The temperature is 26 and the humidity is 70. What is output?

A Warning OK

B Nothing is output

C OK

D Warning

59 Trace this pseudocode:

```
SET total TO 0
FOR i FROM 1 TO 5
    SET total TO total + i * 2
END FOR
OUTPUT total
```

A 10

B 15

C 30

D 50

60 How many numbers does this loop output?

```
FOR i FROM 0 TO 10 STEP 2
    OUTPUT i
END FOR
```

A 5

B 6

C 10

D 11

61 What happens when this pseudocode runs?

```
SET x TO 1
WHILE x ≠ 10
    SET x TO x + 2
END WHILE
OUTPUT x
```

A It outputs 10, because x keeps increasing by 2 until it reaches exactly 10 and stops

B The loop never ends, because x jumps from 9 to 11 and is never equal to 10

C The loop does not run at all

D It outputs 11

62 Trace this pseudocode (remember: & joins text):

```
SET total TO 3
OUTPUT "Items: " & total & 2
```

A Items: 3 + 2

B Items: 32

C Items: 6

D Items: 5

63 A farm packs eggs into boxes of 6:

```
SET eggs TO 50
SET boxes TO eggs DIV 6
SET left TO eggs MOD 6
OUTPUT boxes & " boxes, " & left & " left"
```

A 9 boxes, 0 left

B 8.33 boxes, 2 left

C 8 boxes, 0.33 left

D 8 boxes, 2 left

64 A courier uses this pseudocode. A parcel weighs 5 kg.

```
IF weight ≤ 1 THEN
    SET cost TO 3
ELSE IF weight ≤ 5 THEN
    SET cost TO 6
ELSE IF weight ≤ 20 THEN
    SET cost TO 10
ELSE
    SET cost TO 25
END IF
```

What is the cost?

A 3

B 6

C 10

D 25

65 A shop calculates a discount:

```
IF member = TRUE THEN
    IF total > 100 THEN
        SET discount TO 15
    ELSE
        SET discount TO 5
    END IF
ELSE
    IF total > 100 THEN
        SET discount TO 10
    ELSE
        SET discount TO 0
    END IF
END IF
```

The customer is not a member and total is 100. What is discount?

A 0

B 5

C 10

D 15

66 SET scores TO [12, 7, 15, 9]. Positions start at 0. What is scores[2]?

A 7

B 9

C 12

D 15

67 A program contains:

```
SET names TO ["Asha", "Bo", "Carlos", "Dina"]
FOR i FROM 0 TO LENGTH(names) - 1
    OUTPUT names[i]
END FOR
```

What would happen if "- 1" were removed from the FOR line?

A The first name would be skipped

B Nothing would change, because LENGTH already starts at 0

C Each name would be output twice

D The loop would try to read names[4], which does not exist, causing an error

68 Trace this pseudocode:

```
SET values TO [4, 11, 10, 25, 3, 18]
SET count TO 0
FOR EACH v IN values
    IF v > 10 THEN
        SET count TO count + 1
    END IF
END FOR
OUTPUT count
```

A 2

B 3

C 4

D 6

69 Trace this pseudocode:

```
FUNCTION area(w, h)
    RETURN w * h
END FUNCTION
OUTPUT area(3, 4) + area(2, 5)
```

A 12

B 14

C 22

D 120

70 Trace this pseudocode:

```
FUNCTION double(n)
    RETURN n * 2
END FUNCTION
OUTPUT double(double(3)) + 1
```

A 7

B 12

C 13

D 14

71 A college's rule is "50 or more is a pass." The program says:

```
IF mark > 50 THEN
    OUTPUT "Pass"
ELSE
    OUTPUT "Not yet"
END IF
```

A learner with exactly 50 is told "Not yet". Which change fixes the program?

A Change 50 to 51

B Change > to ≥

C Change > to =

D Change > to <

72 This Python program runs and the user types 17:

```
age = input("Age: ")
print(age + 1)
```

What happens?

A It prints 17 1

B It prints 18, because Python converts the text 17 into a number first

C It prints 171

D An error: input() gives text, which cannot be added to a number

73 Which line contains a syntax error?

```
1  name = input("Name: ")
2  if name == "Admin"
3      print("Welcome, administrator")
4  print("Goodbye")
```

A Line 2, because the if statement needs a colon at the end

B Line 3, because print must not be indented

C Line 1, because input needs two arguments

D Line 4, because print must be inside the if block

74 What does this Python line print?

```
print(3 + 4 * 2)
```

A 11

B 3 + 4 * 2

C 9

D 14

75 What does this Python line print?

```
print(len("data science"))
```

A 2

B 11

C 12

D 13

76 What does this Python program print?

```
is_member = False
price = 10
if is_member:
    price = price - 2
print(price)
```

A An error, because False cannot be used in an if

B 12

C 10

D 8

77 Trace this pseudocode:

```
SET names TO ["Ana", "Ben", "Ana", "Dita"]
SET pos TO -1
FOR i FROM 0 TO 3
    IF names[i] = "Ana" THEN
        SET pos TO i
    END IF
END FOR
OUTPUT pos
```

A -1

B 0

C 1

D 2

78 Trace this pseudocode:

```
SET count TO 0
FOR i FROM 1 TO 3
    FOR j FROM i TO 3
        SET count TO count + 1
    END FOR
END FOR
OUTPUT count
```

A 3

B 6

C 9

D 12

79 A form uses this loop:

```
REPEAT
    INPUT age
UNTIL age ≥ 0 AND age ≤ 120
```

Which sequence of inputs ends the loop after exactly two inputs?

A -1, then 121

B 130, then 150

C 30, then -5

D -5, then 30

80 A variable stores the total price of a basket including tax. Which name is the clearest?

A totalWithTax

B x

C valueStoredByTheProgram

D t2

Basic data and spreadsheet reasoning Questions 81–95

81 Cell D2 contains =B2*C2. Mei copies D2 down to D5. What formula is in D5?

A =B5*C2

B =B5*C5

C =B2*C2

D =E5*F5

82 The tax rate is in F1. Cell D2 contains =C2*F1. Leila copies D2 down to D4. What is in D4?

A =C2*F1

B =C4*F1

C =C4*F1

D =C4*F3

83 A spreadsheet contains:

Cell	Value
B2	12
B3	n/a
B4	8
B5	15

What does =SUM(B2:B5) return?

A 0

B 27

C An error, because B3 contains text

D 35

84 B2 = 10, B3 is empty, B4 = 20. What does =AVERAGE(B2:B4) return?

A An error, because B3 is empty

B 10

C 15

D 30

85 Cells C2:C9 contain the marks 45, 50, 72, 49, 90, 50, 38 and 61. What does =COUNTIF(C2:C9,">=50") return?

A 3

B 4

C 5

D 6

86 B2 contains 69.5. What does this formula return?

```
=IF(B2>=70,"Merit",IF(B2>=50,"Pass","Retake"))
```

A An error, because 69.5 is not a whole number

B Retake

C Pass

D Merit

87 A sheet has names in column A and phone numbers in column B. Omar selects only column A and sorts it A to Z. What is the result?

- **A** Names are reordered but phone numbers are not, so names now have the wrong numbers
- **B** Both columns are sorted together automatically
- **C** Nothing changes, because sorting needs two columns
- **D** The phone numbers in column B are deleted automatically to avoid mismatched records

88 A youth centre wants to show how attendance changed each month over one year. Which chart is most suitable?

- **A** Pie chart
- **B** Single stacked bar
- **C** Table of names
- **D** Line chart

89 A summary table counts members by city and shows three separate rows: "Nairobi", "nairobi " (with a space at the end) and "NAIROBI". What is the best fix?

- **A** Delete the two smaller rows
- **B** Make the column wider
- **C** Leave the data as it is and add the three counts together by hand every time a summary is needed
- **D** Clean the data so every entry has the same spelling, case and no extra spaces, then recount

90 A course had 80 learners last year and has 100 this year. What is the percentage increase?

- **A** 0.25%
- **B** 20%
- **C** 25%
- **D** 125%

91 A sales table shows:

Region	Sales
North	120
South	90
North	75
East	60
North	45
South	30

What are the total sales for North?

- **A** 120
- **B** 195
- **C** 240
- **D** 420

92 When Grace sorts a date column A to Z, "10/02/2026" appears before "9/01/2026". What is the most likely cause?

A The dates are stored as text, so they are sorted character by character

B The spreadsheet always sorts dates in reverse

C February comes before January in spreadsheet calendars

D The column is too narrow

93 Product codes are in A2:A50, names in B2:B50 and prices in C2:C50. The codes are not sorted. Which formula returns the price of product P-204?

A =VLOOKUP("P-204",A2:C50,2,FALSE)

B =VLOOKUP("P-204",A2:C50,3,FALSE)

C =VLOOKUP("P-204",A2:C50,3,TRUE)

D =VLOOKUP(A2:C50,"P-204",3,FALSE)

94 Three cells are formatted to show no decimal places. Each shows 3, but their total shows 8. What is the most likely explanation?

A Each stored value is about 2.6, which displays as 3, and the true total 7.8 displays as 8

B The SUM function has made an addition error

C One cell contains text

D The number format automatically adds 1 to every total so that rounding errors are always safe

95 An invoice sheet contains:

Invoice	Status	Amount
1001	Paid	250
1002	Unpaid	300
1003	Paid	90
1004	Paid	100
1005	Paid	180
1006	Unpaid	50
1007	Paid	101
1008	Overdue	400

How many invoices have Status = Paid AND Amount > 100?

A 2

B 3

C 4

D 5

Digital safety, ethics, responsible AI use and study skills Questions 96–110

96 A course allows AI tools for brainstorming only, and students must declare any use. Ravi used a chatbot to suggest essay topics. What should he do?

- **A** Write the essay himself, check any facts, and declare how he used the chatbot
- **B** Ask a friend to rewrite the chatbot essay so it looks original
- **C** Not mention the chatbot, because it only suggested topics
- **D** Paste the chatbot's full essay and submit it, because AI use is allowed

97 An AI tool summarises a 10-page report and states: "Enrolment fell by 40%." Kofi searches the report and finds no such figure. What should he do?

- **A** Average the AI's figure with a guess
- **B** Ask the same tool again and use the figure if it repeats it
- **C** Use the figure, because summary tools read faster than people
- **D** Treat the figure as unreliable and use only what the report actually says

98 A company trains an AI tool to screen job applications using records of who it hired over the past ten years. Most past hires were men. What is the main risk?

- **A** The tool will reject every application, because it has never seen these applicants before in its data
- **B** The tool will be slower because it has ten years of data
- **C** The tool may learn to favour applications that look like past hires and disadvantage women
- **D** There is no risk, because computers cannot be biased

99 Amina wants an AI chatbot to write reminder messages. She plans to paste the full customer list, including names and phone numbers, into a free public chatbot. What is the best advice?

- **A** Paste the list late at night when fewer people use the chatbot
- **B** Paste the list, because chatbots delete everything immediately
- **C** Do not paste personal data; ask for a template with placeholders such as [Name]
- **D** Paste the list but remove the first column

100 Lucas rewrites a paragraph from a website in his own words and does not mention the website. Which statement is correct?

- **A** It is plagiarism only if he copies more than 50 words
- **B** It is acceptable if the website is free to read
- **C** It is acceptable because he changed the words
- **D** It is still plagiarism, because the ideas came from a source that is not credited

101 Which reference gives enough information for a reader to find the source?

- **A** Osei, K. (2025). Mobile learning in rural schools. Journal of Open Education, 12(3), 44–59.
- **B** Osei, 2025
- **C** "A very interesting article that I read online in 2025 about mobile learning in rural schools"
- **D** www.google.com

102 Which login combination is true two-factor authentication?

- **A** A password plus the answer to a personal security question chosen by the user
- **B** A password plus a code from an authenticator app on the user's phone
- **C** Two different passwords
- **D** A username plus a password

103 A charity buys one licence for a paid design program. The licence allows installation on one computer. The charity has 10 computers. What should it do?

- **A** Install it on all 10, because the charity is non-profit
- **B** Install it on all 10 but use it on only one at a time
- **C** Install it on one computer, or buy more licences (or use a free program) for the others
- **D** Copy the installer for staff to use at home

104 Mei is applying for jobs. Which action best manages her digital footprint?

- **A** Delete only her oldest photos
- **B** Nothing, because employers never look online
- **C** Review her public profiles, remove or restrict posts she would not want an employer to see
- **D** Post much more often, so that her older public posts are pushed further down her profile page

105 Hana has four weeks before a programming test. Which plan is likely to help her remember the most?

- **A** No study until the final weekend, then study for 12 hours
- **B** Studying only the topics she already finds easy
- **C** Short practice sessions on most days, revisiting earlier topics each week
- **D** Reading the notes once, slowly, in week one

106 Samir has these tasks today. Which should he do FIRST?

Task	Due	Importance
Submit assignment	Today 17:00	High
Reply to group chat about weekend plans	No deadline	Low
Read chapter for next week	Next Monday	Medium
Tidy desktop folders	No deadline	Low

- **A** Tidy desktop folders
- **B** Submit assignment
- **C** Reply to group chat about weekend plans
- **D** Read chapter for next week

107 A chart uses only red and green lines to show two groups, with no labels on the lines. Why is this a problem, and what is the best fix?

- **A** Some people cannot tell red from green; add direct labels or different line styles
- **B** The chart has too few lines; add more colours
- **C** Charts should never use colour; remove the chart
- **D** Red and green are too bright for printing on paper; change both lines to the same shade of grey

108 Ana, who handles payments at a small business, receives a phone call that sounds exactly like her manager: "I'm in a meeting. Transfer 3,000 dollars to this new supplier now; I'll explain later." What should she do?

- **A** Verify the request by calling the manager back on a known number or using an agreed procedure
- **B** Transfer the money, because she recognises the voice
- **C** Ask the caller a personal question and pay if it is answered
- **D** Transfer half the money to reduce the risk

109 For a class project, Tomas plans to create a realistic AI image showing a real local shop owner doing something they never did, and post it online. What is the main ethical problem?

- **A** The image file will use too much storage space on the class website and slow it down
- **B** AI images are always low quality
- **C** Class projects are not allowed to use images
- **D** It could mislead people and harm the person's reputation without their consent

110 During an online quiz that is still open, a classmate posts the answers in the course group chat. What is the best action?

- **A** Copy the answers but change one so it looks original
- **B** Share the answers with friends in another group
- **C** Do not use the answers, and inform the tutor
- **D** Use the answers to check her own work before submitting

Integrated problem-solving tasks Questions 111–120

111 A shop's stock sheet uses =IF(C2<5,"Reorder","OK") in each row.

Item	Stock (column C)
Rice 5 kg	3
Cooking oil	5
Tea	12
Sugar	0
Lentils	4
Flour	7

How many items show "Reorder"?

A 2

B 3

C 4

D 6

112 A community clinic wants a simple online appointment form. Which design best balances ease of use, accurate data and privacy?

A A form asking for full medical history and ID number for every booking

B A paper sign-up sheet placed at the clinic entrance

C A single free-text box where patients describe everything, with responses shared with all volunteers

D A date picker, a phone field that checks the format, and responses visible only to clinic staff

113 A bus company uses:

```
FUNCTION fare(age)
    IF age < 5 THEN
        RETURN 0
    ELSE IF age < 18 THEN
        RETURN 1.5
    ELSE IF age ≥ 65 THEN
        RETURN 1
    ELSE
        RETURN 3
    END IF
END FUNCTION
```

A family travels with ages 40, 38, 17, 4 and 70. What is the total fare?

A 8.5

B 10

C 10.5

D 11.5

114 A volunteer rota spreadsheet with names, phone numbers and home addresses is shared as "Anyone on the internet with the link can view". Volunteers only need to see shift times. What is the best fix?

- **A** Keep the public link as it is, but hide the address and phone number columns in the spreadsheet
- **B** Add the word CONFIDENTIAL to the file name
- **C** Ask volunteers not to share the link
- **D** Restrict access to named volunteers and share a version with only names and shift times

115 A report sheet uses =AVERAGE(D2:D20). At the start of each term, D2:D20 is empty and the cell shows #DIV/0!. Which formula shows "No data yet" instead?

- **A** =IF(COUNT(D2:D20)=0,"No data yet",AVERAGE(D2:D20))
- **B** =AVERAGE(D2:D20)+"No data yet"
- **C** =IF(AVERAGE(D2:D20)=0,"No data yet",AVERAGE(D2:D20))
- **D** =SUM(D2:D20)/20

116 Three tutors, Ines, Jamal and Kenji, each run one session: Monday, Tuesday or Wednesday. Ines cannot work on Monday. Jamal can only work on Tuesday or Wednesday. Jamal is not working on Wednesday. Who runs the Wednesday session?

- **A** Ines
- **B** It cannot be decided from the information
- **C** Jamal
- **D** Kenji

117 A team of 5 people in different cities shares documents that include learners' personal data. Which option best meets their needs?

- **A** One USB drive posted between team members each week
- **B** Each person keeping their own copy and emailing changes
- **C** A public file-sharing link that anyone can open
- **D** An organisation cloud drive with named-user access and two-step verification

118 Every week Grace spends two hours copying attendance from paper sheets into a spreadsheet and calculating totals by hand. What is the best improvement?

- **A** Type faster, using a better keyboard
- **B** Photograph the paper sheets and keep the photos instead
- **C** Learners check in through a short online form linked to a spreadsheet with formulas for totals
- **D** Keep the paper process, but do the same manual task every two weeks so it takes less time overall

119 An education app released update 2.3 for Android only on Wednesday. Daily active users:

Day	Android	iOS
Monday	1,200	800
Tuesday	1,180	810
Wednesday	640	805
Thursday	610	820

Which conclusion is best supported?

A An iOS update released at the same time caused the large drop in active users

B The Android update probably introduced a problem that is stopping users

C Mid-week is always quieter for learning apps

D Users dislike the app in general

120 A health worker takes about 30 photos a day for records. Each photo is about 3 MB. Roughly how much storage is needed for one year (365 days)? Use 1 GB = 1000 MB.

A About 330 GB

B About 3 GB

C About 90 MB

D About 33 GB

SECTION B

Determining Section

Questions 121–150

30 questions that are more demanding than Section A.

They test transfer, reasoning, debugging, interpretation and decision-making.

Suggested time: about 50 minutes.

Before you start Section B

These questions carry the same mark as Section A questions but usually need more steps.

Work carefully on paper: trace values, redraw tables, check each condition.

If a question takes too long, mark your best answer, note the number and return to it later.

Multi-step pseudocode with conditions and loops

Questions 121–130

121 Trace this pseudocode:

```
SET total TO 0
FOR i FROM 1 TO 10
    IF i MOD 3 = 0 THEN
        SET total TO total + i
    ELSE IF i MOD 2 = 0 THEN
        SET total TO total - 1
    END IF
END FOR
OUTPUT total
```

A 13

B 14

C 15

D 18

122 Trace this pseudocode:

```
SET a TO 1
SET b TO 1
SET n TO 0
WHILE b < 50
    SET temp TO a + b
    SET a TO b
    SET b TO temp
    SET n TO n + 1
END WHILE
OUTPUT n & " " & b
```

A 8 55

B 8 34

C 9 89

D 7 34

123 Trace this pseudocode (positions start at 0):

```
SET word TO "BANANA"
SET count TO 0
FOR i FROM 0 TO LENGTH(word) - 2
    IF word[i] = "A" AND word[i + 1] = "N" THEN
        SET count TO count + 1
    END IF
END FOR
OUTPUT count
```

A 1

B 2

C 3

D 5

124 Trace this pseudocode:

```
SET temps TO [18, 21, 21, 19, 24, 24, 20]
SET best TO temps[0]
SET day TO 0
FOR i FROM 1 TO LENGTH(temps) - 1
    IF temps[i] ≥ best THEN
        SET best TO temps[i]
        SET day TO i
    END IF
END FOR
OUTPUT day
```

A 4

B 5

C 6

D 24

125 Trace this pseudocode:

```
SET count TO 0
FOR i FROM 1 TO 4
    FOR j FROM 1 TO 4
        IF i ≠ j AND (i + j) MOD 2 = 0 THEN
            SET count TO count + 1
        END IF
    END FOR
END FOR
OUTPUT count
```

A 2

B 4

C 8

D 16

126 A shop tracks stock:

```
SET stock TO 17
SET days TO 0
REPEAT
    SET stock TO stock - 4
    SET days TO days + 1
    IF days MOD 3 = 0 THEN
        SET stock TO stock + 5
    END IF
UNTIL stock < 4
OUTPUT days & " " & stock
```

A 4 1

B 1 13

C 3 10

D 5 2

127 Trace this pseudocode:

```
FUNCTION check(pw)
    IF LENGTH(pw) < 8 THEN
        RETURN "too short"
    END IF
    SET digits TO 0
    FOR EACH ch IN pw
        IF ch is a digit THEN
            SET digits TO digits + 1
        END IF
    END FOR
    IF digits = 0 THEN
        RETURN "add a number"
    END IF
    RETURN "ok"
END FUNCTION
OUTPUT check("sunflower") & ", " & check("abc12") & ", " & check("garden42")
```

A add a number, too short, ok

B ok, too short, ok

C add a number, add a number, ok

D add a number, too short, too short

128 Trace this pseudocode:

```
SET prices TO [2, 12, 25]
SET qty TO [3, 1, 2]
SET total TO 0
FOR i FROM 0 TO 2
    SET cost TO prices[i] * qty[i]
    IF cost > 20 THEN
        SET cost TO cost * 0.9
    END IF
    SET total TO total + cost
END FOR
OUTPUT total
```

A 39

B 61.2

C 63

D 68

129 Trace this pseudocode:

```
SET n TO 6
SET steps TO 0
WHILE n ≠ 1
    IF n MOD 2 = 0 THEN
        SET n TO n DIV 2
    ELSE
        SET n TO 3 * n + 1
    END IF
    SET steps TO steps + 1
END WHILE
OUTPUT steps
```

A 3

B 7

C 8

D 9

130 Trace this pseudocode (positions start at 0):

```
SET s TO "STAR"
SET r TO ""
FOR i FROM LENGTH(s) - 1 TO 0 STEP -1
    SET r TO r & s[i]
END FOR
OUTPUT r & LENGTH(r)
```

A RATS3

B RAT4

C STAR4

D RATS4

Debugging simple programs Questions 131–136

131 This pseudocode should count the vowels in a word (positions start at 0):

```
SET count TO 0
FOR i FROM 1 TO LENGTH(word)
    IF word[i] IS ONE OF "a", "e", "i", "o", "u" THEN
        SET count TO count + 1
    END IF
END FOR
OUTPUT count
```

For word = "apple" it skips the first letter and then stops with an "index out of range" error. Which change fixes it?

A FOR i FROM 1 TO LENGTH(word) - 1

B FOR i FROM 0 TO LENGTH(word) - 1

C SET count TO 1 at the start

D FOR i FROM 0 TO LENGTH(word)

132 This Python program should print the average score:

```
scores = [8, 6, 9]
for s in scores:
    total = 0
    total = total + s
print(total / len(scores))
```

It prints 3.0. Why?

A total is reset to 0 on every pass, so it ends as 9 and 9 / 3 = 3.0

B Python cannot divide whole numbers

C The loop runs only once

D len(scores) returns 9, the last value, instead of the number of items

133 This Python program should print the sum of the whole numbers 1 to 10 (55):

```
total = 0
for i in range(1, 10):
    total = total + i
print(total)
```

It prints 45. Which change fixes it?

A Change range(1, 10) to range(1, 11)

B Change total = 0 to total = 1

C Change range(1, 10) to range(10)

D Change range(1, 10) to range(0, 10)

134 A program should accept ages from 0 to 120 only:

```
IF age ≥ 0 OR age ≤ 120 THEN
    OUTPUT "valid"
ELSE
    OUTPUT "invalid"
END IF
```

Test input	Expected	Actual
35	valid	valid
-4	invalid	valid
200	invalid	valid

Which change fixes the program?

A Replace ≥ with >

B Replace 120 with 119

C Swap the two OUTPUT lines

D Replace OR with AND

135 This pseudocode should find the average of the POSITIVE numbers only:

```
1  SET total TO 0
2  SET count TO 0
3  FOR EACH n IN nums
4      IF n > 0 THEN
5          SET total TO total + n
6      END IF
7      SET count TO count + 1
8  END FOR
9  OUTPUT total / count
```

For nums = [4, 0, 8, -2] it outputs 3 instead of 6. What is the bug?

A Line 5 should use total + 1

B Line 9 should always divide by 4, which is the number of values in nums

C Line 7 should be inside the IF, so only positive numbers are counted

D Line 4 should be n ≥ 0

136 A Python chatbot checks the user's reply:

```
answer = input("Continue? ")
if answer == "yes":
    print("Starting...")
else:
    print("Stopped")
```

Users who type Yes or "yes " (with a space) see "Stopped". Which change handles these cases?

A if answer == "Yes" or answer == "YES":

B if answer.strip().lower() == "yes":

C if len(answer) == 3:

D if answer = "yes":

Interpreting small datasets and spreadsheets Questions 137–141

137 Completion data for four learning centres:

Centre	Enrolled	Completed
A	200	150
B	40	34
C	120	96
D	300	210

Which centre has the highest completion RATE?

A Centre C

B Centre D

C Centre B

D Centre A

138 Seven volunteers received these weekly travel allowances (in dollars): 50, 55, 60, 52, 58, 61, 400. Which value best represents a TYPICAL allowance?

A 58, the median

B About 105, the mean

C 350, the range

D 400, the maximum

139 A survey asked learners which device they use for study:

Age group	Phone only	Laptop only	Both	Total
18–25	42	18	60	120
26–40	25	35	40	100

What percentage of 18–25 learners use a phone only?

A 19%

B 35%

C 42%

D 63%

140 Weekly sign-ups for a coding club were: Week 1: 20, Week 2: 35, Week 3: 48, Week 4: 60. A poster claims "Sign-ups grew by 300% in four weeks!" What is the correct growth from Week 1 to Week 4?

A 40%

B 67%

C 200%

D 300%

141 A module tracker exported these rows:

Row	Learner ID	Module	Completed
1	L01	M1	Yes
2	L02	M1	No
3	L01	M2	Yes
4	L03	M1	Yes
5	L02	M2	Yes
6	L04	M1	(blank)
7	L03	M1	Yes

How many DIFFERENT learners have completed at least one module?

A 2

B 3

C 4

D 5

Ethical and cybersecurity decisions with competing options

Questions 142–146

142 A small online tutoring business discovers that a website bug made customers' email addresses visible to other customers for two hours. There is no evidence anyone misused them. What is the best response?

- **A** Fix the bug, assess and record the incident, and notify customers and the authority as the law requires
- **B** Fix the bug quietly; with no evidence of misuse there is nothing to report
- **C** Email all customers a generous discount code as an apology, without explaining what actually happened to their data
- **D** Delete the website logs so the problem cannot be proven

143 Five staff need to use the business's social media account. The manager suggests posting the password in the staff group chat to save time. What is the best approach?

- **A** Write the password on a note beside the office computer
- **B** Give each person their own access through the platform's team features, protected with two-step verification
- **C** Post the password but change it every month
- **D** Let only the manager log in and type the password for others whenever needed

144 A tutor wants to use an AI tool to mark 300 short essays to save time. Which plan is the most responsible?

- **A** Let it suggest marks; the tutor checks samples and borderline cases, monitors bias and informs learners
- **B** Use AI marks only for learners whose names the tutor does not recognise
- **C** Ban AI tools completely for all marking tasks in the course, including simple spelling and grammar feedback
- **D** Let the AI mark everything without telling learners, because it is faster

145 Omar finds a USB drive labelled "Salaries 2026" in the office car park. He wants to find the owner. What should he do?

- **A** Throw it away, because it might be dangerous
- **B** Plug it into a home computer instead, to protect the office
- **C** Plug it into his work computer to see whose name is on the files
- **D** Hand it to the IT or security team without plugging it in

146 A college wants to publish learners' test results for research. It removes names but keeps date of birth, postcode and gender. What is the main risk?

- **A** Learners could be re-identified by combining date of birth, postcode and gender
- **B** No risk, because names have been removed
- **C** The file will be too large to share
- **D** Researchers will not understand the scores without names

Transfer problems in unfamiliar contexts Questions 147–150

147 A farm has 5 field sections numbered 1 to 5. A watering robot waters 2 sections each day, in order, continuing where it stopped: day 1 → sections 1 and 2; day 2 → 3 and 4; day 3 → 5 and 1; and so on. Which sections are watered on day 6?

A Sections 5 and 1

B Sections 2 and 3

C Sections 1 and 3

D Sections 1 and 2

148 A seed bank compresses sequences by writing the number of repeats before each letter. For example, AAABBC becomes 3A2B1C. How is WWWWBBW compressed?

A 4W2B1W

B 4W2B

C 5W2B

D W4B2W1

149 A lift serves requests using this rule: keep moving in the current direction and stop at every requested floor on the way; when there are no more requests ahead, reverse direction. The lift is at floor 3, moving up. Requests: floors 1, 5, 7 and 2. In which order are the floors served?

A 5, 7, 2, 1

B 5, 7, 1, 2

C 1, 2, 5, 7

D 1, 5, 7, 2

150 A library card number has four digits. The last digit is a check digit: it must equal the sum of the first three digits MOD 10. Which card number is valid?

A 2508

B 3722

C 4816

D 6131

End of the test

Before you hand in your booklet, check that:

- your name and candidate ID are written on the cover page and on the answer sheet;
- you have chosen exactly one answer for every question from 1 to 150;
- any changed answers are clearly marked;
- you have not written anything that identifies other candidates.
- Return this booklet, the answer sheet and all rough paper to the invigilator.

> **Thank you**
>
> Your answers help BANFES.ai recommend the programme that fits you best. Results are normally shared within five working days.

e Determining Section.