

[Home](#) ▶ [My courses](#) ▶ [Programming Methodology](#) ▶ [Week 8: Midterm Exam, Reviews, and Discussions](#) ▶[منهجية البرمجة / شعبة 1](#) - Midterm Exam**Started on** Sunday, 27 December 2020, 5:00 PM**State** Finished**Completed on** Sunday, 27 December 2020, 5:38 PM**Time taken** 37 mins 32 secs**Marks** 16/25**Grade** 19 out of 30 (64%)

Question 1

Incorrect

Mark 0 out of 1

What is referred to as a Computer System

- ☐ a. None of these
- ☐ b. Keyboard and Motherboard
- ☐ c. Hardware and Software
- ☒ d. Software and Programs



Your answer is incorrect.

The correct answer is:
Hardware and Software

Response history

Step	Time	Action	State	Marks
1	27/12/20, 17:00	Started	Not yet answered	
2	27/12/20, 17:03	Saved: Software and Programs	Answer saved	
3	27/12/20, 17:38	Attempt finished	Incorrect	0

Question 2

Incorrect

Mark 0 out of 1

The solution to a problem is

Select one:

- ☐ a. The set of step-by-step instructions to solve the problem.
- ☐ b. The program
- ☐ c. The results.
- ☒ d. All of the above.



The correct answer is: The set of step-by-step instructions to solve the problem.

Response history

Step	Time	Action	State	Marks
1	27/12/20, 17:00	Started	Not yet answered	
2	27/12/20, 17:03	Saved: All of the above.	Answer saved	
3	27/12/20, 17:38	Attempt finished	Incorrect	0


Question 3

Correct

Mark 1 out of 1

An algorithm is:

Select one:

- ☐ a. The results of the problem.
- ☐ b. A solution that can not be reached through a set of step by step instructions.
- ☐ c. The knowledge base of a solution.
- ☒ d. The set of step by step instructions to solve the problem. 

The correct answer is: The set of step by step instructions to solve the problem.

Response history

Step	Time	Action	State	Marks
1	27/12/20, 17:00	Started	Not yet answered	
2	27/12/20, 17:03	Saved: The set of step by step instructions to solve the problem.	Answer saved	
3	27/12/20, 17:38	Attempt finished	Correct	1

Question 4

Correct

Mark 1 out of 1

After you have identified alternative solutions

Select one:

- ☐ a. You are ready to write the algorithm.
- ☐ b. You are ready to identify the knowledge base.
- ☐ c. You are ready to evaluate the solution(s).
- ☒ d. You are ready to select the best solution.



The correct answer is: You are ready to select the best solution.

Response history

Step	Time	Action	State	Marks
1	27/12/20, 17:00	Started	Not yet answered	
2	27/12/20, 17:03	Saved: You are ready to select the best solution.	Answer saved	
3	27/12/20, 17:38	Attempt finished	Correct	1

Question 5

Correct

Mark 1 out of 1

The first step for solving a problem is

Select one:

- ☐ a. analyse the problem
- ☐ b. understad the problem
- ☒ c. identify the problem
- ☐ d. list alternative ways to solve the problem



Your answer is correct.

The correct answer is: identify the problem

Response history

Step	Time	Action	State	Marks
1	27/12/20, 17:00	Started	Not yet answered	
2	27/12/20, 17:06	Saved: identify the problem	Answer saved	
3	27/12/20, 17:38	Attempt finished	Correct	1

Question 6

Incorrect

Mark 0 out of 1

An identifier must start with an upper or lower case letter or an underscore or a digit.

Select one:

☒ True ✖

☐ False

The correct answer is 'False'.

Response history

Step	Time	Action	State	Marks
1	27/12/20, 17:00	Started	Not yet answered	
2	27/12/20, 17:06	Saved: False	Answer saved	
3	27/12/20, 17:38	Saved: True	Answer saved	
4	27/12/20, 17:38	Attempt finished	Incorrect	0

Question 7

Correct

Mark 1 out of 1

The identifier is

Select one:

- ☐ a. Name of a variable
- ☐ b. Name of a constant
- ☒ c. Name of a variable or a constant
- ☐ d. None of the above



Your answer is correct.

The correct answer is: Name of a variable or a constant

Response history

Step	Time	Action	State	Marks
1	27/12/20, 17:00	Started	Not yet answered	
2	27/12/20, 17:06	Saved: None of the above	Answer saved	
3	27/12/20, 17:38	Saved: Name of a variable or a constant	Answer saved	
4	27/12/20, 17:38	Attempt finished	Correct	1

Question 8

Correct

Mark 1 out of 1

 $A=2, B=2, C=2$ $R = A + B * 2 - (C + 4) / A$

Select one:

- ☐ a. 5
- ☐ b. 2
- ☒ c. 3
- ☐ d. 4



The correct answer is: 3

Response history

Step	Time	Action	State	Marks
1	27/12/20, 17:00	Started	Not yet answered	
2	27/12/20, 17:06	Saved: 3	Answer saved	
3	27/12/20, 17:38	Attempt finished	Correct	1

Question 9

Correct

Mark 1 out of 1

$$A * B + 7 > E \wedge 3$$

Precedence of operation is أولوية العملية هي

Select one:

- ☐ a. *, +, >, ^
- ☐ b. >, ^, *, +,
- ☒ c. ^, *, +, >
- ☐ d. *, +, ^, >



The correct answer is: ^, *, +, >

Response history

Step	Time	Action	State	Marks
1	27/12/20, 17:00	Started	Not yet answered	
2	27/12/20, 17:10	Saved: ^, *, +, >	Answer saved	
3	27/12/20, 17:38	Attempt finished	Correct	1

Question 10

Incorrect

Mark 0 out of 1

The data type of Student_ID:

Select one:

- ☐ a. None of the above.
- ☐ b. Must always be string data.
- ☒ c. Must always be numeric data.
- ☐ d. Can be either numeric or string data.



The correct answer is: Must always be string data.

Response history

Step	Time	Action	State	Marks
1	27/12/20, 17:00	Started	Not yet answered	
2	27/12/20, 17:10	Saved: Must always be numeric data.	Answer saved	
3	27/12/20, 17:38	Attempt finished	Incorrect	0

Question 11

Correct

Mark 1 out of 1

What is a flowchart?

Select one:

- ☐ a. A text-based way of designing an algorithm
- ☒ b. A diagram that represents a set of instructions
- ☐ c. A specific programming language
- ☐ d. A bullet point list of instructions



Your answer is correct.

The correct answer is: A diagram that represents a set of instructions

Response history

Step	Time	Action	State	Marks
1	27/12/20, 17:00	Started	Not yet answered	
2	27/12/20, 17:10	Saved: A diagram that represents a set of instructions	Answer saved	
3	27/12/20, 17:38	Attempt finished	Correct	1

Question 12

Correct

Mark 1 out of 1

In a flowchart how are symbols connected?

Select one:

- ☐ a. Symbols do not get connected together in a flowchart
- ☐ b. With solid lines to link events
- ☒ c. With lines and an arrow to show direction of flow
- ☐ d. With dashed lines and numbers



Your answer is correct.

The correct answer is: With lines and an arrow to show direction of flow

Response history

Step	Time	Action	State	Marks
1	27/12/20, 17:00	Started	Not yet answered	
2	27/12/20, 17:10	Saved: With lines and an arrow to show direction of flow	Answer saved	
3	27/12/20, 17:38	Attempt finished	Correct	1

Question 13

Correct

Mark 1 out of 1

When using the problem solving tools, the first one to use is:

Select one:

- ☐ a. Flowchart.
- ☐ b. IPO Chart.
- ☒ c. PAC Chart.
- ☐ d. Algorithm.



The correct answer is: PAC Chart.

Response history

Step	Time	Action	State	Marks
1	27/12/20, 17:00	Started	Not yet answered	
2	27/12/20, 17:29	Saved: PAC Chart.	Answer saved	
3	27/12/20, 17:38	Attempt finished	Correct	1

Question 14

Correct

Mark 1 out of 1

What is an Algorithm?

Select one:

- ☐ a. A chart showing the flow of a series of events
- ☒ b. Step-by-step instructions to solve a problem
- ☐ c. A computer program that follows a chart
- ☐ d. A decision arrived at by following instructions



Your answer is correct.

The correct answer is: Step-by-step instructions to solve a problem

Response history

Step	Time	Action	State	Marks
1	27/12/20, 17:00	Started	Not yet answered	
2	27/12/20, 17:13	Saved: Step-by-step instructions to solve a problem	Answer saved	
3	27/12/20, 17:38	Attempt finished	Correct	1

Question 15

Correct

Mark 1 out of 1

PRE-PROGRAMMING PHASE requires the following steps

Select one or more:

- ☒ a. Analyzing the Problem by Developing PAC ✓
- ☒ b. Drawing the Program flowcharts ✓
- ☐ c. Design of problem
- ☐ d. Coding
- ☒ e. Developing the IPO Chart ✓
- ☒ f. Developing The Interactivity Chart ✓
- ☒ g. Writing the algorithms ✓

Your answer is correct.

The correct answers are: Analyzing the Problem by Developing PAC, Developing the IPO Chart, Developing The Interactivity Chart, Drawing the Program flowcharts, Writing the algorithms

Response history

Step	Time	Action	State	Marks
1	27/12/20, 17:00	Started	Not yet answered	
2	27/12/20, 17:29	Saved: Analyzing the Problem by Developing PAC ; Drawing the Program flowcharts ; Developing the IPO Chart ; Developing The Interactivity Chart ; Writing the algorithms	Answer saved	
3	27/12/20, 17:38	Attempt finished	Correct	1

Question 16

Correct

Mark 1 out of 1

Write a Problem Analysis Chart (PAC) to compute and display the temperature inside the earth in Celsius and Fahrenheit. The relevant formulas are

$$\text{Celsius} = 10 \times (\text{depth}) + 20$$

$$\text{Fahrenheit} = 1.8 \times (\text{Celsius}) + 32$$

أكمل مخطط تحليل المشكلة (PAC) لحساب وعرض درجة الحرارة في باطن الأرض بدرجة مئوية وفهرنهايت.

depth=عمق

Data	Processing	Output
depth	$\text{fahr} = 1.8 \times (\text{celsius}) + 32$ $\text{celsius} = 10 \times (\text{depth}) + 20$	celsius fahr

Your answer is correct.

Response history

Step	Time	Action	State	Marks
1	27/12/20, 17:00	Started	Not yet answered	
2	27/12/20, 17:13	Saved: Drop zone 1 -> {1. depth} Drop zone 2 -> {2. fahr = 1.8 x (celsius) + 32 celsius = 10 x (depth) + 20} Drop zone 3 -> {3. celsius fahr}	Answer saved	
3	27/12/20, 17:38	Attempt finished	Correct	1

Question 17

Correct

Mark 1 out of 1

Write a problem analysis chart (PAC) that asks a user to enter a unit price and quantity of the product sold . Calculate and display the total sale

اكمل مخطط تحليل المشكلات (PAC) الذي يطلب من المستخدم إدخال سعر الوحدة وكمية المنتج المباع. وحساب وعرض إجمالي البيع

Data	Processing	Output
unit price quantity	total sale=unit price * quantity	total sale

Your answer is correct.

Response history

Step	Time	Action	State	Marks
1	27/12/20, 17:00	Started	Not yet answered	
2	27/12/20, 17:17	Saved: Drop zone 1 -> {1. unit price quantity} Drop zone 2 -> {2. total sale=unit price * quantity} Drop zone 3 -> {3. total sale}	Answer saved	
3	27/12/20, 17:38	Attempt finished	Correct	1

Question 18

Incorrect

Mark 0 out of 1

Which of the following is *not* one of the three basic types of control structures with which any program can be written?

Select one:

- ☐ a. the addition structure
- ☒ b. the sequence
- ☐ c. the decision structure
- ☐ d. the loop structure



Your answer is incorrect.

The correct answer is: the addition structure

Response history

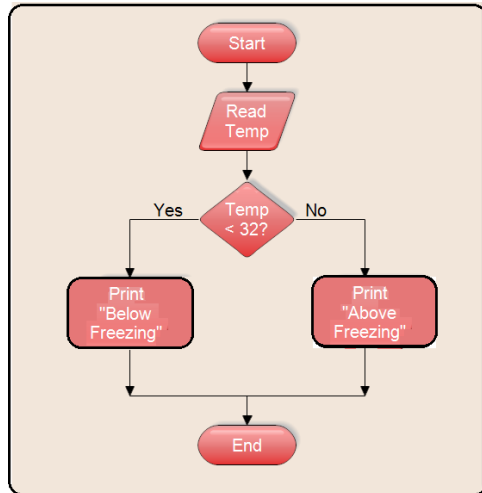
Step	Time	Action	State	Marks
1	27/12/20, 17:00	Started	Not yet answered	
2	27/12/20, 17:17	Saved: the sequence	Answer saved	
3	27/12/20, 17:38	Attempt finished	Incorrect	0

Question 19

Incorrect

Mark 0 out of 1

What is the error in the following flowchart? ما هو الخطأ في المخطط الانسيابي التالي?



Select one:

- ☐ a. Read Symbol
- ☐ b. No calculation
- ☒ c. No error at all
- ☐ d. output symbol

✗

Your answer is incorrect.

The correct answer is: output symbol

Response history

Step	Time	Action	State	Marks
1	27/12/20, 17:00	Started	Not yet answered	
2	27/12/20, 17:17	Saved: No error at all	Answer saved	
3	27/12/20, 17:38	Attempt finished	Incorrect	0

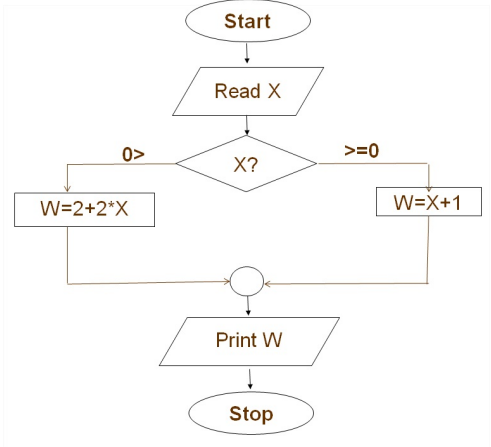
Question 20

Incorrect

Mark 0 out of 1

if $X = -10$, what is the output of the flowchart?

تتبع "flowchart" التالي وحدد ناتج الطباعة



Select one:

- ☐ a. -40
- ☐ b. 11
- ☐ c. -18
- ☒ d. -22

✖

Your answer is incorrect.

The correct answer is: -18

Response history

Step	Time	Action	State	Marks
1	27/12/20, 17:00	Started	Not yet answered	
2	27/12/20, 17:17	Saved: -22	Answer saved	
3	27/12/20, 17:38	Attempt finished	Incorrect	0

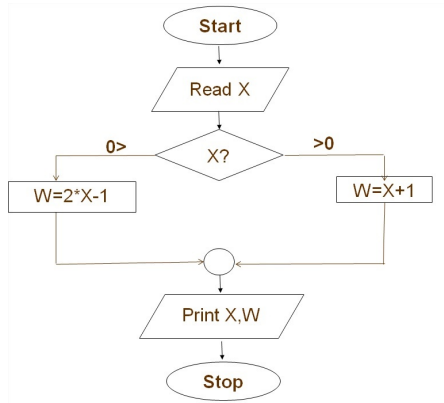
Question 21

Correct

Mark 1 out of 1

if $X=0$, What is the output of the flowchart?

تتبع "flowchart" التالي وحدد ناتج الطباعة



Select one:

- ☐ a. -10, 0
- ☒ b. Error in the flowchart
- ☐ c. -10, 9
- ☐ d. -10, -1



Your answer is correct.

The correct answer is: Error in the flowchart

Response history

Step	Time	Action	State	Marks
1	27/12/20, 17:00	Started	Not yet answered	
2	27/12/20, 17:21	Saved: Error in the flowchart	Answer saved	
3	27/12/20, 17:38	Attempt finished	Correct	1

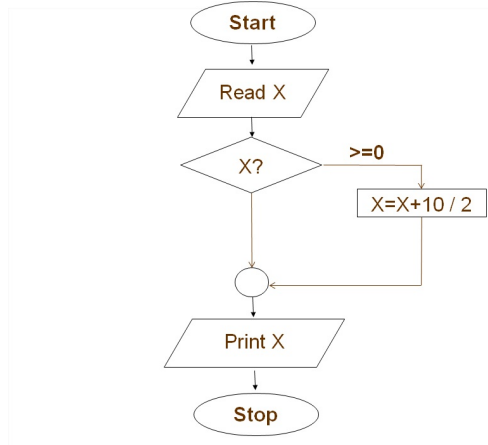
Question 22

Incorrect

Mark 0 out of 1

If $X=10$, what is the output of the flowchart?

تتبع "flowchart" التالي وحدد ناتج الطباعة



Select one:

- ☐ a. 15
- ☒ b. 10
- ☐ c. 22
- ☐ d. 20

✗

Your answer is incorrect.

The correct answer is: 15

Response history

Step	Time	Action	State	Marks
1	27/12/20, 17:00	Started	Not yet answered	
2	27/12/20, 17:21	Saved: 10	Answer saved	
3	27/12/20, 17:38	Attempt finished	Incorrect	0

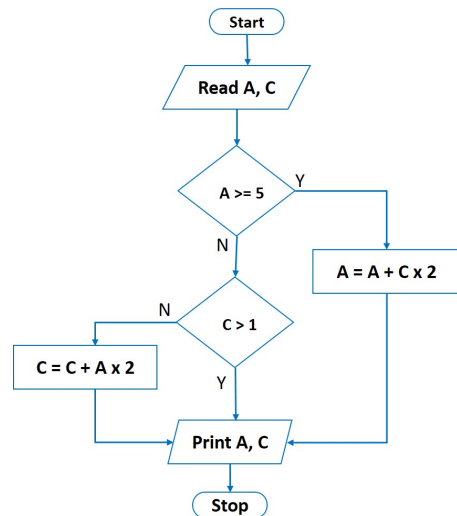
Question 23

Correct

Mark 1 out of 1

If $A=5$ and $C=2$, what is the output of the flowchart:

تتبع "flowchart" التالي وحدد ناتج الطباعة



Select one:

- ☐ a. 4, 9
- ☒ b. 9, 2
- ☐ c. 14, 2
- ☐ d. 2, 9



Your answer is correct.

The correct answer is: 9, 2

Response history

Step	Time	Action	State	Marks
1	27/12/20, 17:00	Started	Not yet answered	
2	27/12/20, 17:21	Saved: 9, 2	Answer saved	
3	27/12/20, 17:38	Attempt finished	Correct	1

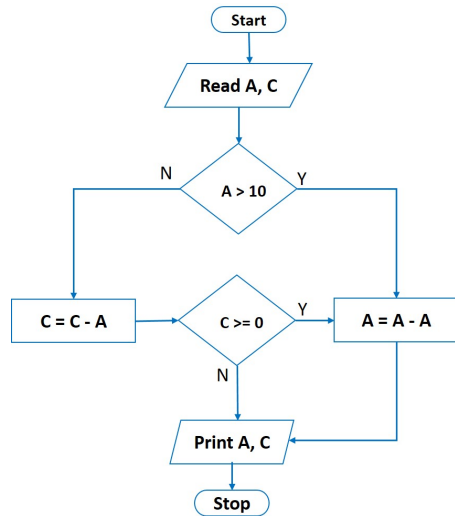
Question 24

Correct

Mark 1 out of 1

If $A=10$ and $C=15$, what is the output of the flowchart:

تتبع "flowchart" التالي وحدد ناتج الطباعة



Select one:

- ☐ a. 10, 5
- ☐ b. 0, 10
- ☒ c. 0, 5
- ☐ d. None of these.



Your answer is correct.

The correct answer is: 0, 5

Response history

Step	Time	Action	State	Marks
1	27/12/20, 17:00	Started	Not yet answered	
2	27/12/20, 17:24	Saved: 0, 5	Answer saved	
3	27/12/20, 17:38	Attempt finished	Correct	1

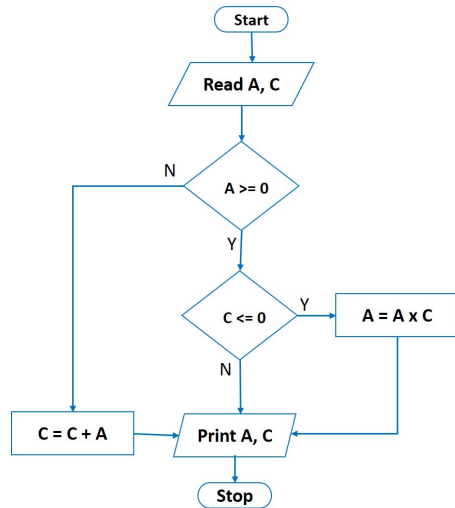
Question 25

Incorrect

Mark 0 out of 1

If A=1 and C=0, What is the output of the flowchart:

تتبع "flowchart" التالي وحدد ناتج الطباعة



Select one:

- ☐ a. 1, 0
- ☐ b. 0, 0
- ☐ c. 1, 1
- ☒ d. None of these.

✗

Your answer is incorrect.

The correct answer is: 0, 0

Response history

Step	Time	Action	State	Marks
1	27/12/20, 17:00	Started	Not yet answered	
2	27/12/20, 17:24	Saved: None of these.	Answer saved	
3	27/12/20, 17:38	Attempt finished	Incorrect	0

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Next activity

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