


Egypt-Japan University of Science and Technology

Applicants for: All Programs	Program: Admission Test	 الجامعة المصرية اليابانية للعلوم والتكنولوجيا E-JUST Egypt-Japan University of Science and Technology エジプト日本科学技術大学
Academic Year:	Date:	
Test Duration: 1 hour	Subject: Logical Thinking	
Total Points: (100) 10 points per question	No. of Pages: 5	

Answer all questions, and write your answers in the same exam sheet.

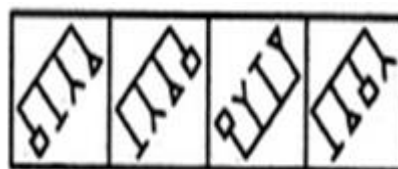
Question 1: Select a figure from amongst the Answer Figures (A-D) which will continue the same series as established by the five Problem Figures (1-5)?

Problem Figures



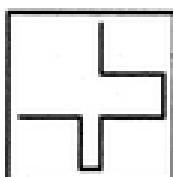
1 2 3 4 5

Answer Figures

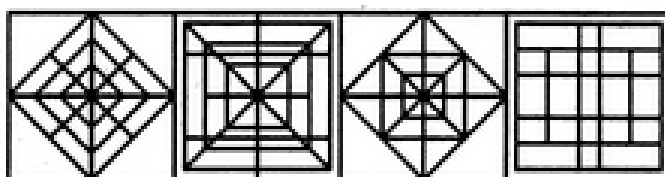


A B C D

Question 2: The figure (X) is embedded in one of the figures (1-4). Find out the figure which contains figure (X) as its part.



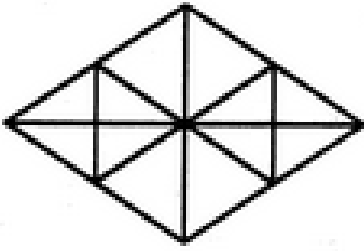
X



1 2 3 4

- A. 1
- B. 2
- C. 3
- D. 4

Question 3: Find the number of triangles in the given figure?



- A. 16
- B. 22
- C. 28
- D. 32

Question 4: A four-person crew from Classic Colors is painting Mr. Ali's house. Hassan is painting the front of the house. Sara is in the alley behind the house painting the back. Kareem is painting the window frames on the north side, Mona is on the south. If Hassan switches places with Kareem, and Kareem then switches places with Mona, where is Mona?

- A. in the alley behind the house
- B. on the north side of the house
- C. in front of the house
- D. on the south side of the house

Question 5: Read the following statements, then decide which of the given conclusions is logically true based on the three given statements?

Statements: All the papers are books. All the bags are books. Some purses are bags.

Conclusions:

1. Some papers are bags.
2. Some books are papers.
3. Some books are purses.

- A. Only (1)
- B. Only (2) and (3)
- C. Only (1) and (2)
- D. Only (1) and (3)

Question 6: Read the following statement, then decide which of the given assumptions is logically implicit in the given statement?

Statement: Unemployment allowance should be given to all unemployed Egyptian youth above 18 years of age.

Assumptions:

- I. There are unemployed youth in Egypt who needs financial support.
 - II. The government has sufficient funds to provide allowance to all unemployed youth.
- A. Only assumption I is implicit
 - B. Only assumption II is implicit
 - C. Neither I nor II is implicit
 - D. Both I and II are implicit

Question 7: “She is breathing, so she is truly alive”. This is an example of:

- A. Observation
- B. Inference
- C. Prediction
- D. Hypothesis

Question 8: Read the following statements, then identify the cause and effect relationship between them.

Statements:

- I. The prices of petrol and diesel in the domestic market have remained unchanged for the past few months.
- II. The rough oil prices in the international market have gone up substantially in the last few months.

- A. Statement I is the cause and statement II is its effect
- B. Statement II is the cause and statement I is its effect
- C. Both the statements I and II are independent causes
- D. Both the statements I and II are effects of independent causes

Question 9: Read the following statements, then identify the cause and effect relationship between them.

Statements:

- I. There is considerable reduction in the number of people affected by water-borne diseases in City A during this rainy season.
- II. The government has opened four new civil hospitals in City A in the beginning of the year.

- A. Statement I is the cause and statement II is its effect
- B. Statement II is the cause and statement I is its effect
- C. Both the statements I and II are independent causes
- D. Both the statements I and II are effects of independent causes

Question 10: The question below consists of a statement, followed by two arguments numbered I and II. You have to decide which one of the arguments is a ‘strong’ argument and which is a ‘weak’ argument.

Instruction: A strong argument is both important and directly related to the question. A weak argument is not directly related to the question, or is of minor importance.

Statement:

Should banks and financial institutions be obligated to engage in socially-responsible investing?

Arguments:

- I. Yes, engaging in socially responsible investing leads to a happier and more fulfilled workforce compared to banks which do not engage in socially-responsible investing.
- II. No, banks are for-profit institutions and have no obligation to social issues.

- A. Only argument I is strong
- B. Only argument II is strong
- C. Neither I nor II is strong
- D. Both I and II are strong

END