


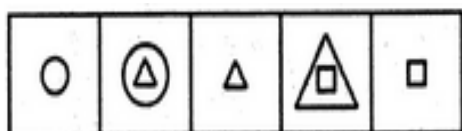
## Egypt-Japan University of Science and Technology

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

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

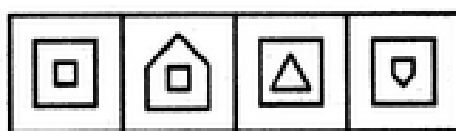
**Question 1:** Select a figure from amongst the Answer Figures (A-D) which will continue the same series as established by the five Problem Figures (1-5)?

Problem Figures



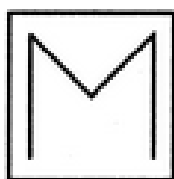
1      2      3      4      5

Answer Figures

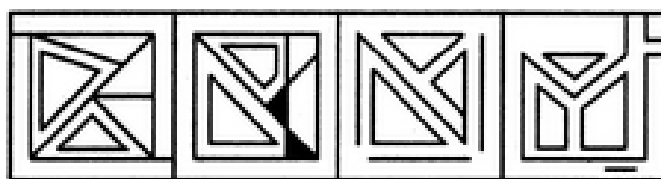


A      B      C      D

**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.



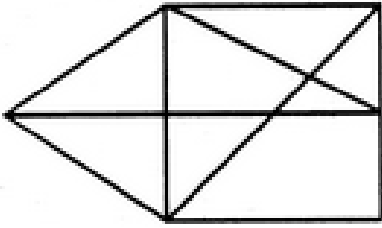
X



1      2      3      4

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

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



- A. 12
- B. 13
- C. 14
- D. 15

**Question 4:** At the baseball game, Hany was sitting in seat 253. Mariam was sitting to the right of Hany in seat 254. In the seat to the left of Hany was George. Enas was sitting to the left of George. Which seat is Enas sitting in?

- A. 251
- B. 254
- C. 255
- D. 256

**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 bottles are boxes. All the boxes are bags. Some bags are trays.

*Conclusions:*

1. Some bottles are trays.
2. Some trays are boxes.
3. All the bottles are bags.
4. Some trays are bags.

- A. Only (3) and (4)
- B. Only (1) and (2)
- C. Only (2) and (3)
- D. Only (1) and (4)

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

*Statement:* The Government has decided to charge 2% on the tax amount payable for funding drought relief programs.

*Assumptions:*

- I. The Government does not have sufficient money to fund drought relief programs.
  - II. The amount collected by way of surcharge may be adequate to fund these drought relief programs.
- 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:** “Sunlight is necessary for plant growth”. 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 police authority has recently caught a group of house breakers.

II. The citizens group in the locality have started night vigil in the area.

- 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 effects of independent causes.
- D. Both the statements I and II are effects of some common cause.

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

I. The performance of most of the students in final exam of class X in the schools run by the Government was excellent.

II. Many teachers of the Government schools left the school and joined private schools.

- 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 effects of independent causes
- D. Both the statements I and II are effects of some common cause

**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 governments implement a minimum wage, outlining a minimum amount an employee is to be paid per hour?

*Arguments:*

- I. Yes, the existence of minimum wages is a key part of a civilized society.
- II. No, minimum wage leads to under-employment by forcing companies to take on staff part time, as they cannot afford to hire them on a full time basis.

- 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