

**Quaid-i-Azam University**  
**Department of Computer Science**

**Aptitude Test**  
**Instructions**

- Write your name and registration number allocated to you by the university while submitting the application form and other information on the answer sheet and also on the question paper instructions' page.
- Number of sections, number of questions in each section and number of possible answers for each question can vary.
- Each correct answer will carry 2 marks and 1/2 mark will be deducted for each incorrect answer.
- Only use blue or black ink.
- You are not allowed to use **Calculators** or **lead pencils**.
- It is a one hour test. ( total questions = 45 )

**Sample Paper**

**Questions 1-3: Series**

Each series below follows a rule. Find the next term in each series.

- Q.1.    7                    9                    5                    11  
          4                    15                    12                    7  
          13                    8                    11                    ?  
          A) 6                B) 8                C) 10                D) 12                E) None
- Q.2.    1                    3                    4                    8                    15                ?  
          A) 21                B) 24                C) 27                D) 32                E) None
- Q.3.    58                    35                    ?                    11                    6                3  
          A) 28                B) 24                C) 20                D) 18                E) None

**Questions 4-6: Algorithmic Logic**

Q.4.

Box no.	1	2	3	4	5	6
Contents	0	-1	2	-4	5	-6

1. Cube the contents of box no. 2
2. Add the result of step 1 to contents of box no. 4 and store the result in box no. 2
3. Subtract the contents of box no. 3 from contents of box no. 2 and store the result in box no. 4
4. The result in box no. 4 is:  
          A) -5                B) 5                C) -7                D) 7                E) None

Q.5.

Box no.	1	2	3	4	5	6
Contents	1	-1	8	-8	27	-27

1. Take the cube root of contents of box no. 4 and add it to contents of box no. 2
2. Subtract 2 from contents of box no. 2 and place result in box no. 4
3. Add square of contents of box no. 4 to contents of box no. 6
4. The result of step 3 is:

- A) 2                  B) 4                  C) -26                  D) 25                  E) None

Q.6.

Box no.	1	2	3	4	5	6
Contents	5	10	15	20	25	30

1. Subtract contents of box no. 3 from contents of box no. 2 and add result to contents of box no. 1
2. Subtract contents of box no. 5 from contents of box no. 1 and place result in box no. 2
3. If contents of box no. 1 are greater than contents of box no. 2, subtract contents of box no. 2 from contents of box no. 1
4. Add the result of step 3 to contents of box no. 5
5. Contents of box no. 5 are:

- A) 50                  B) 25                  C) -25                  D) 0                  E) None

**Questions 7-10 : Arithmetic**

Q.7. A car dealer gives a customer a 20 percent discount on the list price of a car, and still gets a profit of 25 percent on his cost. If the dealer's cost is Rs. 4800/-, what is the list price of the car?

- A) 6000                  B) 7200                  C) 7500                  D) 8000                  E) None

Q.8. If a student must have a mark of 80% to pass a test of 75 items, the number of items he may miss and still pass the test is

- A) 30                  B) 12                  C) 15                  D) 20                  E) None

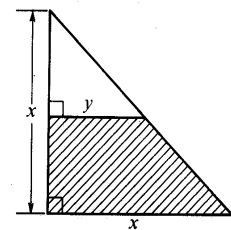
Q.9. The regular price of a TV that sold for Rs. 27500/- at a 20% reduction sale is

- A) 47500                  B) 32000                  C) 48750                  D) 55750                  E) None

**Questions 10-13: Geometry**

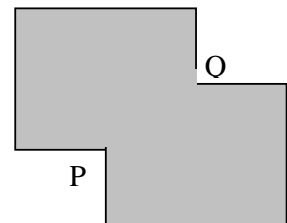
Q.10. Which of the following expresses the area of the shaded region in the figure?

- A)  $\frac{x^2 - y^2}{2}$                   B)  $\frac{x^2 + y^2}{2}$                   C)  $x^2 - y^2$                   D)  $\frac{x^2 + xy}{4}$   
 E) None



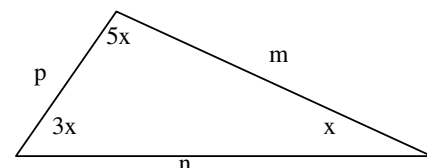
Q.11. The figure is formed by two overlapping squares, each having sides of 6 centimeters in length. If P and Q are the midpoints of the intersecting sides, what is the area, in square centimeter, of the shaded region?

- A) 72                  B) 63                  C) 60                  D) 54  
 E) None



Q.12. For the figure, which of the following option is true

- A)  $n^2 > p^2 + m^2$                   B)  $n^2 < p^2 + m^2$   
 C)  $n^2 = p^2 + m^2$                   D)  $n^2 = 2p^2 + m^2$   
 E) None



# ANSWER SHEET

NAME & SIGNATURE \_\_\_\_\_ REGN. NO. \_\_\_\_\_  
N.I.C. NO. \_\_\_\_\_ DOMICILE \_\_\_\_\_  
FATHER'S NAME \_\_\_\_\_ DATE \_\_\_\_\_

Please Encircle Below the Appropriate Answers

1	A	B	C	D	E
2	A	B	C	D	E
3	A	B	C	D	E
4	A	B	C	D	E
5	A	B	C	D	E
6	A	B	C	D	E
7	A	B	C	D	E
8	A	B	C	D	E
9	A	B	C	D	E
10	A	B	C	D	E
11	A	B	C	D	E
12	A	B	C	D	E
13	A	B	C	D	E
14	A	B	C	D	E
15	A	B	C	D	E
16	A	B	C	D	E
17	A	B	C	D	E
18	A	B	C	D	E
19	A	B	C	D	E
20	A	B	C	D	E

In the given example each question has five choices (A, B, C, D, and E). Encircle the choice, which in your opinion is the best answer. Please don't overwrite. If you want to change your answer, you may do so after crossing out the previous answer.

**For Example**

1	A	B	C	D	E
2	A	<del>B</del>	C	D	E