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**.

Sample Paper

Part 1: Logic

Questions 1-3: Series

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

Q.1.	7 4 13	9 15 8	5 12 11	11 7 ?	
	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

0.4

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

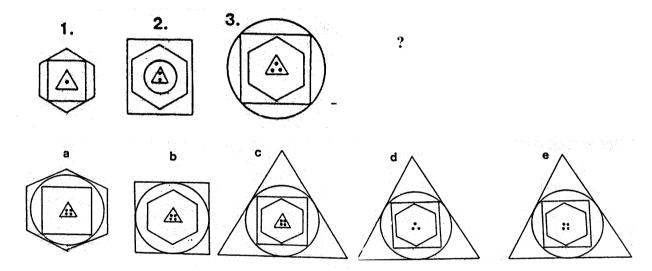
Q.6.

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

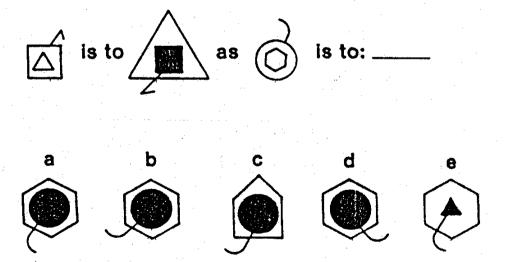
- 1. Subtract contents of box no. 3 from contents of box no. 2 and add result to contents of box no. 1
- 2. Subtract contents of box no. 5 from contents of box no. 1 and place result in box no. 2
- 3. If contents of box no. 1 are greater than contents of box no. 2, subtract contents of box no. 2 from 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 7-8: Pattern Matching

Q.7.



Q.8.



Part 2: Quantitative **Questions 9-12: Arithmetic**

0.9. 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
- O.10. 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
- The regular price of a TV that sold for Rs. 27500/- at a 20% reduction sale is Q.11.
 - A) 47500
- B) 32000
- C) 48750
- D) 55750
- E) None
- In a school where 30 percent of the students are boys, 80 percent of the boys are present on a certain day. Q.12. If 960 boys are present, the total number of students is
 - A) 4000
- B) 2800
- C) 4500
- D) 3000
- E) None

Questions 13-16: Geometry

- 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) $\frac{x^2 + xy}{4}$

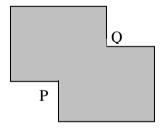


- O.14. The figure is formed by two overlapping squares, each having sides of 6 centimeters in length. If P and Q are the midpoints of the intersecting sides, what is the area, in square centimeter, of the shaded region?



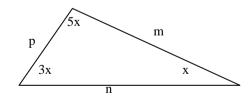
- B) 63
- C) 60
- D) 54

E) None



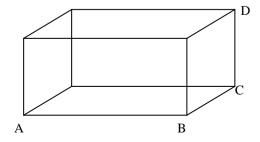
- For the figure, which of the following option is true Q.15.
 - $\begin{array}{l} A)\; n^2 > p^2 + m^2 \; B)\; n^2 < p^2 + m^2 \\ C)\; n^2 = p^2 + m^2 \; D)\; n^2 = 2p^2 + m^2 \end{array}$

 - E) None



- Q.16. The figure is a rectangular solid with AB = 10, BC = 10and CD = 3. What is the total surface area of the figure?
 - A) 320
- B) 300
- C) 220

- D) 160
- E) None



Part 3: Comprehension & Analytical Reasoning

17. America's first globe maker was			James Wilson, w	ho	and blacksmith in his earlier life.			
	A) a farmer E) None	had been	B) had been a	ı farmer	C) farming	D) being a farmer		
For	Question 18, cho	oose the one wor	d or phrase that m	nust be change	d in order for the se	entence to be correct		
18.	Asprin is recomm	mend to many pe	eople for <u>its</u> ability C	y <u>to thin</u> the bl	ood			
	A) A	B) B	C) C	D) D	E) None			
Qu	estions 19-20 are	based on the following	lowing passage					
	 Carbohydrates, which are sugars, are an essential part of a healthy diet. They provide the main source of energy for the body, and they also function to flavor and sweeten foods. Carbohydrates range from simple sugars like glucose to complex sugars such as amylose and amylopectin. Nutritionists estimate that carbohydrates should make up about one-forth to one-fifth of a person's diet. This translates to about 75-100 grams of carbohydrates per day. A diet that is deficient in carbohydrates can have an adverse effect on a person's health. When the body lacks a sufficient amount of carbohydrates it must then use its protein supplies for energy, a process called gluconeogenesis. This, however, results in a lack of necessary proteins, and further health difficulties may occur. A lack of carbohydrates can also lead to ketosis, a build-up of ketones in the body that causes fatigue, lethargy, and bad breath. 							
	B) CarbohyC) CarbohyD) CarbohyE) None	drates are neede drates prevent a drates can lead t drates are an exp	d for good health build up of protei	good diet	owing?			
-0.	A) neglect	B) serve	C) dissolve	D) profess	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	В	C	D	E
2	A	В	C	D	E
3	A	В	C	D	E
4	A	В	C	D	E
5	A	В	C	D	E
6	A	В	C	D	E
7	A	В	C	D	E
8	A	В	C	D	E
9	A	В	C	D	E
10	A	В	C	D	E
11	A	В	C	D	E
12	A	В	C	D	E
13	A	В	C	D	E
14	A	В	C	D	E
15	A	В	C	D	E
16	A	В	C	D	E
17	A	В	C	D	E
18	A	В	C	D	E
19	A	В	C	D	E
20	A	В	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	В	C	D	E
2	A	\bigotimes	C	(I	E