

## Sample

### READ THESE INSTRUCTIONS FIRST

Write your ROLL NO., Name, Father's Name and Centre in the spaces provided on the right column only.

**DO NOT** WRITE YOUR PARTICULARS ANYWHERE ELSE IN THIS BOOKLET.

Write in dark blue or black ink.

Answer **all** questions. [Total Time: 3 hours]

Write your answers in the spaces provided on this Question Booklet.

The number of marks is given in brackets [ ] at the end of each question or a part question.

Do not write in any of shapes given below anywhere in this booklet. These are for Examiners' use.

Cadet College -----

Entry Test Class 8th & O-Level

**Roll No.**

*Invigilator's sign:*

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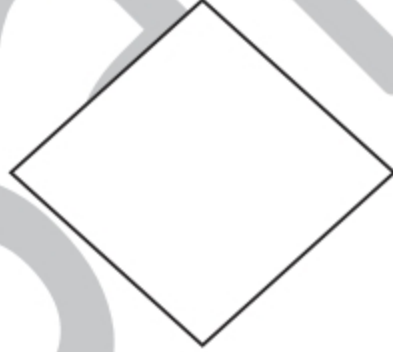
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**For Examiners' Use**

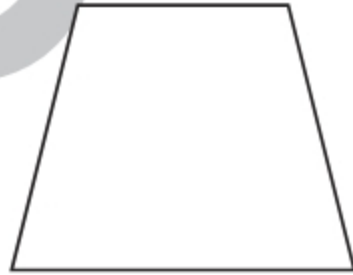
Section A  
**Mathematics**



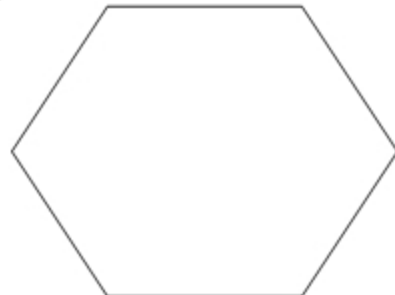
Section B  
**Intelligence Test & General Awareness**



Section C  
**English**



Section D  
**Urdu/ Islamiat**



**Name:**

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**Father's Name:**

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**Centre:**

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Use Last Page for Rough Work

DO NOT WRITE ON THIS PAGE

Sample

**Q.No.1.** The formula  $F = \frac{9}{5}C + 32$  shows the relationship between the temperatures in degrees Fahrenheit (F) and Centigrade (C).

Find,

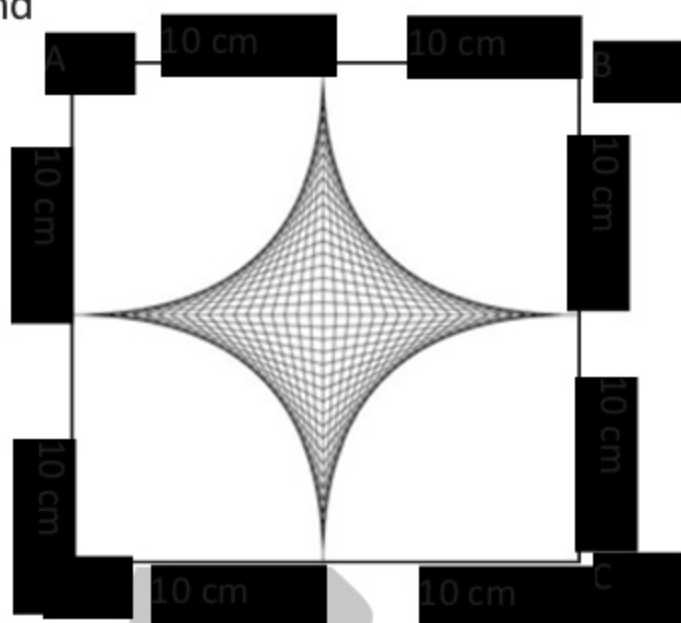
- (a). F When  $C = 40$
- (b). C When  $F = 100$
- (c). At what temperature both scales show same value

[10]

Sample

**Q.No.2.** Quadrants of radius 10 cm are cut from each corner of the square ABCD to leave the figure shaded in the diagram. Taking  $\pi$  to be 3.14, find

- the total area of 4 quadrants
- the area of the shaded region,
- the perimeter of the shaded region. [10]



**Q.No.3.** a). The sum of three consecutive even numbers is 306. Find the numbers using algebraic equation.

[5]

b). Convert  $50000 \text{ mm}^2$  to  $\text{m}^2$ . Also, write the number of litres  $50000 \text{ cm}^3$  make.

[5]

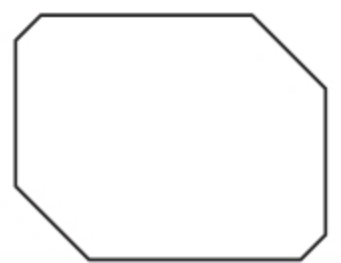
**Q.No.4.** A company sold 20% more houses in year 2011 than it did in 2010. If it sold 426 houses in 2011, calculate how many houses it sold in year 2010. If sale price of each house being PRs. 2000000 in both the years then find the more money the company earned in year 2011 than 2010.

[10]

Sample

**Q.No.5.** Construct a parallelogram PQRS if  $\overline{mPQ} = 7.5\text{cm}$  ,  $m\angle Q = 120^\circ$  and  $\overline{mQR} = 5.5\text{cm}$  . Construct angle with the help of compass. Steps of construction are not required. [10]

Sample

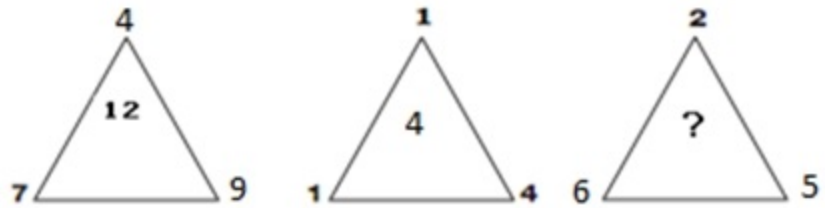


Circle the correct answer in each case.

[20]

1. What number replaces the question mark?

- A. 9      B. 13  
C. 7      D. 8



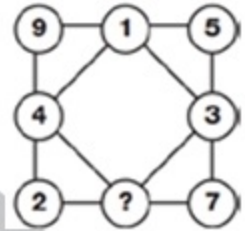
2. What number replaces the question mark?



- A. 15      B. 19      C. 21      D. 23

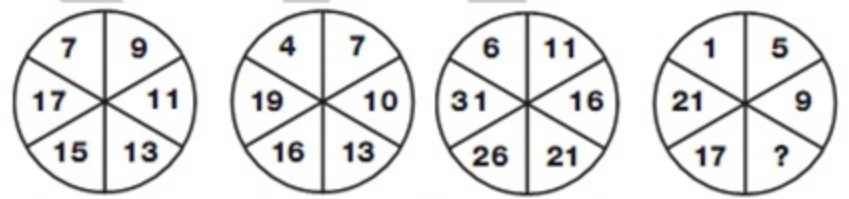
3. What number replaces the question mark?

- A. 8      B. 5  
C. 7      D. 6

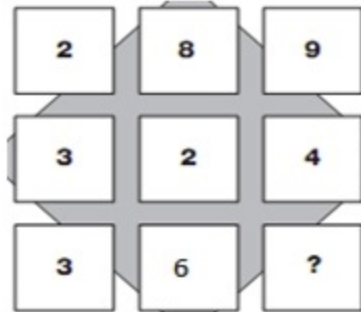


4. What is the missing number in the pattern below?

- A. 12      B. 13      C. 11      D. 14



5. Find the missing digit;



- A. 1      B. 2  
C. 3      D. 4

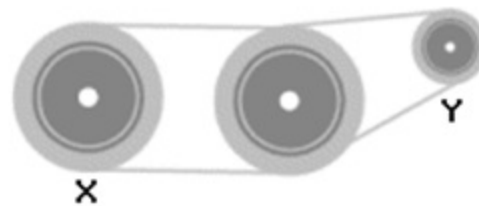
6. What is the missing letter in the series?

P, N, K, G, ?

- A. B      B. D      C. E      D. C

7. Three wheels are connected with belts and wheel X rotates clockwise with a constant speed. How does wheel Y turn?

- A. Clockwise with same speed as X  
B. Anticlockwise slower than X  
C. Clockwise faster than X  
D. Anticlockwise slower than X



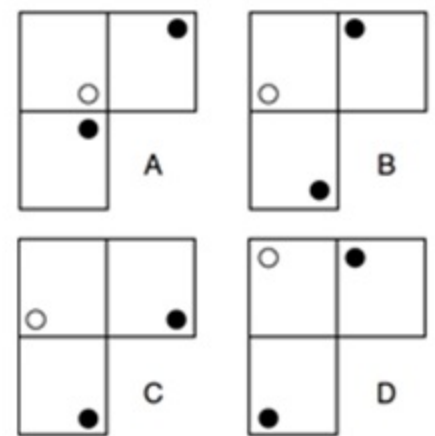
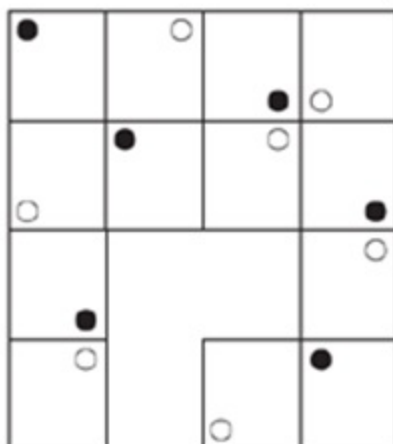
8. As 'apple' is to 'Leap' like 'Orange' is to 'Geor'. Then 'Memory' is to ?

- A. Ryme      B. Mery      C. Ryem      D. Meyr

9. If it is 5 O'clock on your clock then what is the angle between hour hand and minute hand?

- A.  $180^{\circ}$       B.  $120^{\circ}$   
C.  $150^{\circ}$       D.  $90^{\circ}$

10. Which is the missing section?

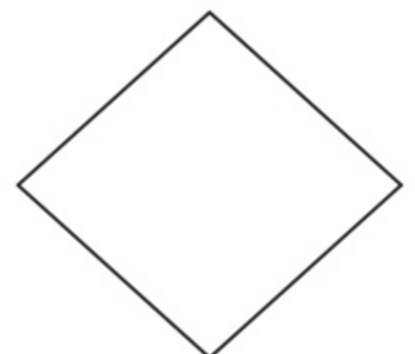




Q. Very briefly (only 1 mark for each) answer the following questions in given space in front. [20]

1.	UPS in electricity stands for	
2.	How many Alphabets are in Standard English language.	
3.	ISPR is abbreviation for	
4.	Name the control pedal, which is not required in vehicles with Auto Transmission.	
5.	Who is junior in Air force ranks, a Squadron Leader or a Group Captain.	
6.	Has any Pakistani nationals ever reached the summit of Mount Everest.	
7.	In how many days Earth completes one revolution around the Sun.	
8.	Write name of any noble gas	
9.	A magnet can attract the objects made of iron, nickel and	
10.	How many seconds light will take to reach from Earth to Sun.	
11.	Name colours on the two ends of white light spectrum.	

12.	What falling object is said to have inspired Isaac Newton's law about gravity?	
13.	In which direction (North, South, East, West) generally rivers flow in Pakistan.	
14.	What (out of Earth, Moon, and Sun) cannot be in between other two, for an eclipse seen from earth.	
15.	Is Ice less dense than water?	
16.	CNIC is issued by NADRA, what CNIC stands for	
17.	Which vegetable causes tears in eyes when cut.	
18.	SIM (for cell phone) is an abbreviation of	
19.	When is Christmas Eve celebrated	
20.	In computers' data, "MB" stands for?	



**Section C (English) Total marks [50]**

**Q.1.** Write down form of verb of the nouns and use the form of verb in a meaningful sentence. [10]

Noun	Verb	Sentences
(i) Beauty	.....	..... .....
(ii) Horror	.....	..... .....
(iii) Approval	.....	..... .....
(iv) Inspection	.....	..... .....
(v) Care	.....	..... .....

**Q.2. Do as directed.** **[5]**

i). They say, "we shall plan a trip to northern areas." (Change narration)

\_\_\_\_\_

ii). Rashid is senior than me. (Correct it)

\_\_\_\_\_

iii). Are these computers sold by him? (Change the voice)

\_\_\_\_\_

iv). I have seen this image before. (Which category of pronoun "this" belong to?)

\_\_\_\_\_

v). Birds of a group flock together. (Correct the proverb)

\_\_\_\_\_

**Q.3. Provide the missing letters in the following words.** **[5]**

- (i) Quarr\_\_\_l (ii) Reb\_\_\_l (iii) Scar\_\_\_ity
- (iv) Uncon\_\_\_ious (v) Posse\_\_\_ion

**Q.4. Read the given passage and answer the questions.****[8]**

Helicopters are very different from airplanes. First, when airplanes move upward, they must also move forward, but helicopters can move straight up without moving ahead. Second, helicopters can fly backward, which airplanes cannot do. Third, helicopters can use their rotors to hover in the air which is impossible for planes. Because helicopters can perform actions that airplanes cannot, they are used for different tasks. Since helicopters can take off without moving forward, they do not need a runway for takeoff. They are used in congested areas where there is no room for airplanes or in isolated areas which do not have airports. Because they can hover, they are used on firefighting missions to drop water on fires. Helicopters are used as air ambulances to airlift patients out of situations which are difficult to reach by conventional ambulances.

**Questions**

1. Why don't helicopters need runways?

Ans: -----  
-----

2. How are helicopters used as ambulances?

Ans: -----  
-----

3. Why are helicopters helpful in firefighting?

Ans: -----  
-----  
-----

4. What does the word 'hover' in the passage means?

Ans: -----  
-----

5. Give antonym of the word 'congested'

Ans: -----  
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حصہ اسلامیہ (کل نمبر: 10)

1. Write Translation of any One surah "Al-Feil" or "Al-Falaq".

[3]

کا صرف ترجمہ لکھیں

1: ة ی ی ة

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2. What is the number of Zakāt (Charity) in pillars of Islam?  
Write its two benefits.

[2]

2: ة ی ی ة

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3. Write briefly two aspects of the Holy Prophet's (pbuh) ideal life.

[2]

3: ة ی ی ة

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4. What do Muslims learn from the battle of "Uhad".

[2]

سے یہ تے ہیں

4:

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5. Write any one condition of Treaty of Hdaybiyyah

[1]

ب کی ئی ی شر کئے

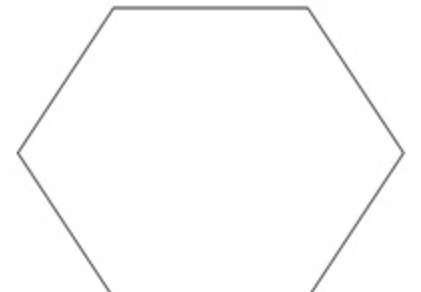
5:

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6: عبارت میں آپ کے لیے کیا سبق موجود ہے؟

سوال نمبر 2: یے گئے شعا میں سے کس ایک کی تشریح کریں۔ (8)

جہا تا کی فکا تا سے ہے نمو  
کہ سنگ خشت سے ہوتے نہیں جہا پید

باطل سے بنے لے سا نہیں ہم  
سو با کر چکا ہے تو متا سما

Sample



سوال نمبر 1: ایل عبا کو پڑ کر خرمیں یے گئے سولا کے جو اپنے الفاظ میں تحریر کریں (20)

"میں کثر سلم سے کہتا ہتا کہ متھا کے قریب ہیں جم کر محنت کر نہ پچھتا گے خاند کی عز پر حر گئے گا نے میر یک نہ سنی پنی گر میں مشغو ہا متھا قریب تے ہی کا جی چھو گیا مشکل پرچے کیکھ کر ہاتھ پا پھو گئے جب لٹ یا تو ہم سا ما شر کے میں میں گڑ گئے میں نے جب سے بلا یا تو کے چہر پر حسر بر ہی تھی "

1: عبا سے پانچ محا چن کر پنے جملو میں ستعا کریں

2: سلم کا نتیجہ کیا نکلا؟

3: سلم کے چہر پر حسر کیو بر ہی تھی

4: سب کو کیو شر مسا ہونا پڑ

5: سلم کو کیا نصیحت کی گئی تھی۔