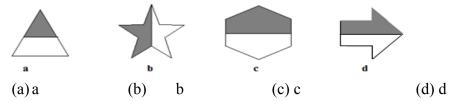
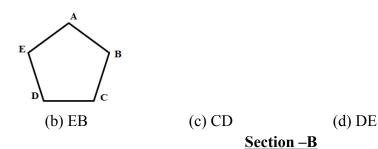
# KENDRIYA VIDYALAYA SANGATHAN ,REGIONAL OFFICE, LUCKNOW MID TERM EXAMINATION 2023-24

			IEKWI EXAMI	NATIO	
	BJECT : MATHEN	MATICS			MAX. MARKS: 60
	ASS: VI				TIME: 2 Hr.30 Min
	ENERAL INSTRUC				
	All questions are co				
		consists of 30 question			
		=			n B comprises of 5 questions of 2 marks each.
					mprises of 5 questions of 4 marks each.
4.I	nternal choices are	provided in 2 question	ns of section B,	2 quest	ions of section C and 2 questions of section D.
5.0	Calculators are not j	permitted.	<b>SECTION- A</b>		
1	Using the digits 2	0.8.7 without repetition	on the greatest n	umber	obtained is .
1.	(a) 7802	(b) 8072	(c) 8720	amoer	(d) 8207
2	· /	owing statements is wi	· /		(u) 6207
∠.		of a two digit number		. digit n	umbar
	` ′	-	•	_	
	- · ·	or of a two digit number	bei can be one u	igit iiui	ilibel.
	(c) Zero is smalles				
2		number and a whole nu			
3.	<del>-</del>	akh forty one written	=		(1) 7 00 041
4	(a) 541	(b) 5,00,41	(c) 5041	. 4 1 11	(d) 5,00,041
4.					the factors of his age. They found that the
	numbers 1, 2 and	3 were there in both the	ne list. What cou	ild be th	neir ages (in years)?
	(a) 9 and 10	(b) 10 and 12	(c) 12 and 18		(d) 16 and 18
5.	How many diagor	nals a pentagon has?			
	(a) 10	(b) 5	(c) 4		(d) 8
6.	Which is the only	even prime number?			
	(a) 2	(b) 3	(c) 4		(d) 5
7.	* *	oint of line segment B	` /		
	_	_			
		C D E F G			
	0 1 2 3	3 4 5 6 7			
	(a) D	(b) E	(c) C	(d) B	
			3	( )	
0	Dity hayaht 1 mat	earlang ribban Chata		rarra tha	e remaining to her sister Anita. How much
0.	ribbon Anita got?	er long modell. She to	ok ' of it and g	gave the	e tenianing to her sister Amta. How much
	(a) 75 cm	(b) 15 cm	(c) 25 cm		(d) 100 cm
Q	` '	of prime numbers betw	` /		(u) 100 cm
٦.	(a) 58	(b) 43	(c) 33		(d) 24
10	` '	following integers lie	` /	nerg _3	
10.	(a) -6	(b) -2	(c) 0	gc13 - 3 (	(d) -4
11	` /	he hour hand moves v	` /	m 1 to 4	
11.	(a) $120^{\circ}$	(b) 60°	(c) 100°	III I W .	(d) 90°
12	* *		(C) 100		(d) 90
14.	(-32)+(-12)(- (a) <	(b) >	(c) =		(d) None of these
	(a) \	(0) /	(c) =		(d) None of these
					$\frac{1}{2}$
13.	Which of the follo	owing is not a correct	representation o	f fraction	on <sup>2</sup> ?



- 14. Which of the following can be the sides of a scalene triangle?
  - (a) 3cm, 3cm, 3cm
- (b) 3cm, 4cm, 3cm
- (c) 3cm, 4cm, 5cm
- (d) 3cm, 5cm, 5cm
- 15. Which of the following is not a side of the following polygon?



16. Show  $\frac{3}{5}$ ,  $\frac{6}{5}$  on number line.

## OR

Arrange the following fractions in ascending order.

$$\frac{7}{15}, \frac{2}{15}, \frac{2}{3}$$

(a) AB

17. In a housing complex, there are two types of buildings 'Type A' and 'Type B'. There are 15 'Type A' buildings and 22 'Type B' buildings. Each of the 'Type A' building has 10 floors with 4 apartments on each floor. Each of the 'Type B' building has 15 floors with two apartments on each floor.



- (i) How many apartments are there in a 'Type A' building?
- (ii) How many apartments are there in all?
- 18. A teacher was teaching basic geometrical concepts to the students. She gave some figures to students and asked few questions from it.



- (i) Which of the above figures have no corners?
- (ii) How many line segments are there in 'figure a'?
- 19. Consider the letters of the English alphabets given below.

A E U O L P I T K

Which alphabets have a pair of perpendicular lines?

### OR

Ramu starts from point A. He moves 5 km in north direction to the point B. Then he turns right and goes 3 km to point C. Again he takes right turn and goes 5 km to point D. Once more takes right turn and goes 3 km.

Н

- (i) In which direction he is moving now?
- (ii) What is his distance from starting point now?
- 20. Find the common factors of 32, 24.

# Section – C

- 21. A machine on an average, manufactures 2,825 ice-creams a day. How many ice-creams did it produce in the month of February 2020?
- 22. Manju and Arif are playing a game in which Manju thinks of a number from the grid shown below and gives the clues. Arif has to find the number using clues that are given. 2 3 5

Row 1

Row 2

7

12

17

22

13

18

23

11

16

21

9

14

19

24

10

15

20

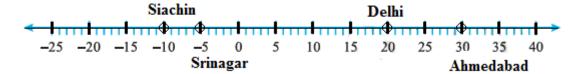
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- (i) It is a multiple of 3. It is even. It is in the third row. What is Manju's number?
- (ii) This number is factor of all the numbers in the grid..
- (iii) LCM of numbers in the first row is\_
- 23. Draw an acute angle, an obtuse angle and a right angle. Also write their measurements.
- 24. Mother made a 'Gud Patti' (a sweet made of jaggery and peanuts) in a round shape. She divided it into 8 parts. Seema ate two parts from it. Mother ate two parts and Meena ate remaining piece.
  - (i) What fraction mother did mother eat?
  - (ii) What fraction mother and Seema together ate?
  - (iii) By what fraction the share of Meena was larger than Seema?

Tina and Aryan visited a zoo on Sunday. The guide told them that there are total 500 animals.  $\frac{1}{10}$  of them are lions,  $\frac{1}{20}$  are monkeys,  $\frac{2}{5}$  are birds,  $\frac{3}{10}$  are elephants,  $\frac{1}{20}$  are bears and rest are tigers. After knowing this their parents asked some questions to them.



- (i) How many lions are there in the zoo?
- (ii) Find the fraction of tigers in the zoo.
- What is the difference between the number of elephants and monkeys?
- 25. One day Manoj was watching weather news. He represented the temperatures of various cities on number line. Looking the number line answer the following questions.



- (i) Which place has temperature 5°C below 0°C?
- (ii) Which is the coolest place?
- (iii) What is the difference between temperatures of Delhi and Srinagar?

OR

Solve

- (i) (-312)+(-12)-(-254)
- (ii) -25-54+70
- (iii) -23+0-(-23)

# **Section D**

26. Raman is a shopkeeper. He sells general items like daily use items, fruits, stationary etc.

Things	Price (in Rs)
Apples	40 per kg
Oranges	30 per kg
Combs	3 per one
Tooth brushes	10 per one
Panaila	1 nor one

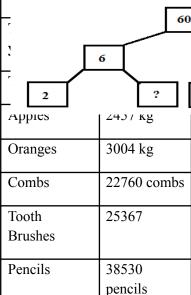
(i) Find the amount he got for each item.

$$(2+1+1)$$

- (ii) Find the total amount of money Raman got by selling apples and oranges.
  - (iii) Find the total sale during last year.

Find the HCF of 18, 54 and 81 using prime factorisation.

(ii) Complete the factor tree.



# OR

Using divisibility rules check the divisibility of number 2854558 by 11.

What is the smallest 3 digit number which is exactly divisible by 6, 12?

there are 7 places labelled as A, B, C, D, E, F and O. Radhika these places in the map of

and draws them on her notebook as given in the

figure.

27.

(i)

(i)

(ii)

4 and

8 and

28. In a city

notices

the city

- (i) Which point lies on the line segment OE?
- (ii) What point is vertex of the  $\angle$  FOD?
- (iii) Which two angles of the following are same?

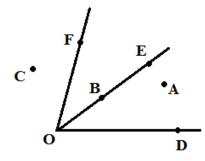
$$\angle$$
 EOD,  $\angle$  FOD,  $\angle$  COD,  $\angle$  DOB

- (iv) Which three points lie in the interior of  $\angle$  FOD?
- 29. Find the following results using number line
  - (i) 4+5
  - (ii)  $4 \times 2$

### OR

Fill in the blanks

- (i) \_\_\_\_\_ is the smallest natural number.
- (ii) is the successor of 78455.
- (iii)\_\_\_\_\_\_ is the only whole number that has no predecessor.
- (iv)\_\_\_\_\_ is the only whole number that is not natural number.
- 30. Answer the following Q. by given figure.
- (i) Write two equivalent fractions of  $\frac{1}{3}$ .
  - (ii) What fraction does the following figure represent?





- (iii) Write  $\frac{16}{72}$  in simplest form.
- (iv) Write  $\frac{17}{4}$  in mixed fraction.