

Booklet Number

EN/EETAR/9/23



This booklet contains 32 pages



Do not open this Test Booklet until you are asked to do so.

Read carefully the Instructions given in this Test Booklet.

Name of the Candidate (in Capita	als) <u>'</u> /in	,	
Roll Number : in figures in in			-+-
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Centre of Examination (i			
Candidate's Signature :			_
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INSTRUCTIONS

- This question paper booklet contains FIVE 19. sections. Section "A" Mathematics contains 50 questions of 4 marks each. Section "B" English, Section "C" General Science, Section "D" Social 10. Studies and Section "E" Intelligence contain 25 questions each, of 2 marks per question. In all, the paper consists of 150 questions for a total of 400 marks. Answer all questions.
- 2. Duration of the test is 3 hours. (180 minutes)
- The question paper booklet is in English only, 12. On completion of the test, hand over the
- 4. The question paper booklet is of 32 pages. Please check and ensure that the question paper booklet is 13. You are allowed to take away this Question Paper complete and contains all the pages.
- 5. Answer all questions in the OMR answer sheet only.
- The OMR Answer Sheet is inside this Question Paper Booklet. When you are directed to open the Question Paper Booklet, take out the OMR Answer Sheet and fill in the particulars carefully with Blue/Black ball point pen only.
- Darken only one circle as your correct answer for each question. If you darken more than one circle for the same question, your answer will be treated
- There is no negative marking for a wrong answer.

- Do not make unnecessary marks on the OMR answer sheet or fold or attempt to deface it. If you do so, your answer sheet will not be evaluated.
- Use Blue/Black ball point pen only for writing particulars on this page and for writing answers. Do not use pencil.
- Rough work is to be done on the space provided for this purpose in the Question Paper Booklet only and not on the OMR sheet.
- OMR Answer Sheet to the Invigilator before leaving the Room/Hall.
- Booklet with you.
- The CODE for this Booklet is M. Make sure that the CODE printed on the OMR Answer Sheet is the same as that on this Question Paper Booklet. In case of discrepancy, report the matter immediately to the Invigilator for replacement of both the Question Paper Booklet and the Answer Sheet.
- 15. Do not write your Roll No. anywhere else except in the specified space in the Question Paper Booklet / OMR Answer Sheet.
- 16. Do not use white fluid for carrying out any correction on the OMR Answer Sheet.

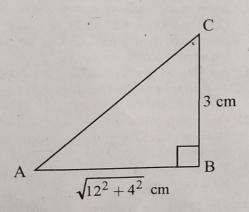
SECTION - 'A': MATHEMATICS

- 001 Arun bought binder clips at the rate of 5 for a rupee. He had to sell them at the rate of 6 for a rupee. Find his loss percent in the transaction.

 - $(1) \quad \frac{40}{3}\% \qquad (2) \quad \frac{50}{3}\%$
- (3) $\frac{10}{3}\%$ (4) $\frac{20}{3}\%$
- **002** For what value of m

$$xy^{2}m = (2xy + 5y)^{2} - (2xy - 5y)^{2}$$
(1) -100 (2) 100 (3) 40

- **003** Which is the like term as $84xy^2z^2$?
 - (1) $-3 \times 8 \times x \times y \times z \times z$
- (2) $12 \times 7 \times x \times x \times y \times z \times z$
- $(3) \quad -5 \times 6 \times x \times x \times y \times y \times z \qquad (4) \quad 6 \times 4 \times x \times z \times y \times z \times y$
- **004** ABC is a right angled triangle, which is right angled at B. If $AB = \sqrt{12^2 + 4^2}$ cm, BC = 3cm, then find out the perimeter of the given figure :



(3) $(4\sqrt{10} + 16)$ cm (3) $(8\sqrt{10} + 2)$ cm

(2) $(16\sqrt{10} + 4)$ cm

- (4) $(2\sqrt{10} + 8)$ cm
- 005 A bicycle wheel makes 1000 revolutions in moving 2 km. Find the diameter of the wheel.
 - (1) 1.57 m
- 1.27 m (2)
- (3) 6.036 m
- (4) 0.636 m

006 If $a = 5 + 2\sqrt{6}$ and $b = \frac{1}{a}$, then what will be the value of $a^2 + b^2$?

- (1) 100
- (2) 96
- (3) 102
- (4) 98

007 Gauransh has 290 cards. Tanya has 150 cards. How many cards must Gauransh give to Tanya so that Tanya may have 3 times as many cards as Gauransh?

- (2) 40
- (3) 140
- (4) 80

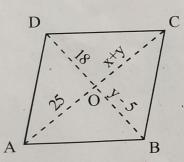
008 A's present age is twice that of B. If B's age 5 years ago was b, then what is A's present age? (2) 2b-5 (3) 2b-10 (4) 2b+10

- $(1) \cdot 2b + 5$

009 If ABCD is a parallelogram, then find the value of x and y,

where OC = x + y, OD = 18

$$OB = y - 5$$
 and $OA = 25$



- x = 13, y = 12 (2) x = 2, y = 23 (3) x = 23, y = 2 (4) x = 12, y = 13

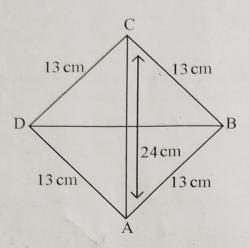
010 Statement A: Every parallelogram is a trapezium and every rhombus is a kite.

Statement B: Every rectangle is a square but every square is not a rectangle.

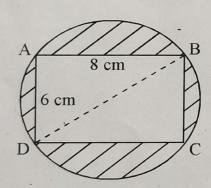
- (1) Both A and B are true
- A is true and B is false
 - (3) A is false and B is true
 - (4) Both A and B are false



Find the area of Rhombus ABCD having each side equal to 13 cm and one of its diagonal is 24 cm.



- (1) 80 cm²
- (2) 140 cm²
- $(3) 100 \text{ cm}^2$
- (4) 120 cm²
- 012 A rectangle ABCD is inscribed in a circle having sides 8 cm and 6 cm. Find the area of the shaded region.



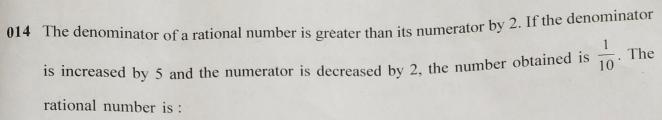
- (1) 32 cm²
- (2) 30.5 cm²
- (3) 40.5 cm²
- (4) 36 cm²

- **013** Find m so that $(-5)^{m+1} \times (-5)^{m-1} = (-5)^3$
 - (1) 1
- (2) 3
- (3) 5
- $\frac{3}{2}$



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(1)
$$\frac{25}{8}$$

(2) 3 (3) 1 (4)
$$\frac{3}{5}$$

015 Which one of the following is a pythagorean triplet in which one side differs from the hypotenuse by two units?

(1)
$$(2n+1, 4n, 2n^2+2n)$$

$$(2)$$
 $(2n, 4n, n^2 + 1)$

(3)
$$(2n^2, 2n, 2n+1)$$

(4)
$$(2n, n^2 - 1, n^2 + 1)$$

016 The ratio of the circumference of 2 wheels is 5:3. Find the ratio of the radii of the 2 wheels.

017 The following marks are obtained by a student in different subjects during formative assessment in 8 subjects. Find median.

018 Factorize $4a^2 - 9b^2 - 2a - 3b$. Identify the correct factorize answer.

(1)
$$(2a-3b)(2a-3b-1)$$

(2)
$$(2a-3b)(2a+3b+1)$$

(3)
$$(2a+3b)(2a+3b+1)$$

(3)
$$(2a+3b)(2a+3b+1)$$
 (4) $(2a+3b)(2a-3b-1)$

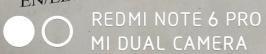
019 $\sqrt[4]{\sqrt[3]{2^2}}$ is equal to :



$$(3) 2^{-6}$$

$$(4) 2^6$$

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- 020 There are 200 employees in an office. Food provision for them is for 20 days. How long will this provision last if 90 of them leave the group?
 - (1) 16 days
- (2) 25 days
- (3) 17 days
- (4) 30 days
- 021 5 pipes are required to fill a tank in 1 hour 36 minutes. How long will it take if 2 pipes stopped working?
 - (1) 57.40 minutes (2) 2 hours (3) 48 minutes



2 hour 40 minutes

- 022 The Curved surface area of a cylindrical pipe is $2\pi (x^2 + x 132)$ metres and its radius is (x+12) metres. What will be the height of the pipe?
 - (1) (x+12) sq. m

(2) (x-11) sq. m

(x-11) m

(x+12) m

023 Match List-II with List-II:

List-I

List-II

(A)
$$(7a+6b)(7a-6b)$$
 (I) $49a^2+84ab+36b^2$

(I)
$$49a^2 + 84ab + 36b$$

(B)
$$(7a+6b)^2$$

(II)
$$49a^2 + 21ab - 18b^2$$

(C)
$$(7a-6b)^2$$

(III)
$$49a^2 - 36b^2$$

(D)
$$(7a+6b)(7a-3b)$$

(D)
$$(7a+6b)(7a-3b)$$
 (IV) $49a^2-84ab+36b^2$

Choose the correct answer from the options given below:

- (A)-(I), (B)-(II), (C)-(III), (D)-(IV) (1)
- (2) (A)-(II), (B)-(III), (C)-(IV), (D)-(I)
- (3) (A)-(III), (B)-(I), (C)-(IV), (D-(II)
 - (A)-(IV), (B)-(III), (C)-(II), (D)-(I)



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024 Match List-I with List-II:

List-I

List-II

(A)
$$3m \times 2m$$

(I)
$$16a^2$$

(B)
$$-9m \times -3n$$

(II)
$$6m^2$$

. (C)
$$4a^2 \times 4a^2$$

(IV)
$$16a^4$$

Choose the correct answer from the options given below:

025 If a 4-digit number $2x \ y8$ is exactly divisible by 3, then which of the following is the least value of (x + y)?

026 Find the digits A and B if

$$\begin{array}{r}
BA \\
\times A4 \\
\hline
13A0
\end{array}$$

027 One of the factors of $6x^2 + 5x - 6$ is :

$$(1)$$
 $2x-3$

(2)
$$3x + 2^{-1}$$

$$(3)$$
 $2x+3$

$$(4) \quad 2x-2$$

028 A tree broke at a height of 6m from the ground and its top touched the ground at the distance of 8m from the foot of the tree. Find the height of the tree.



029 15 boys earn ₹ 900 in 5 days. How much will 20 boys earn in 7 days?

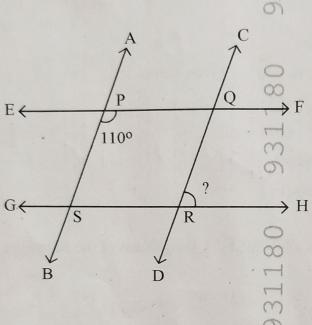
(1) ₹ 1680

(2) ₹ 1720

₹ 1420

(4) ₹ 2008

030 If $AB \parallel CD$ and $EF \parallel GH$ then find $\angle QRH$



-(1)105°

50° (2)

110°

031 In what time will ₹ 160000 amount to ₹ 176400 at 5% per annum compounded annually?

(1) 4 years (2) 3 years

2 years

(4) 1 year

032 Anita borrows ₹ 1000 at 10% p.a. simple interest for 3 years. She immediately lends this money at compound interest at the same rate and for the same time. What is her gain at the end of 3 years?

(1) ₹ 40

(2) ₹ 41

033 Mohan can do a piece of work in 25 days alone and Rohan can finish it in 20 days. They work together for 5 days & then Mohan left the work. In how many days will Rohan finish the remaining work?

SJ91

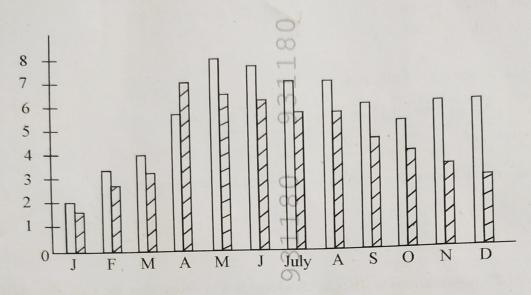
(1) 20 days

(2) 9 days

(3) 14 days

034 The following bar graph shows the average daily hours of sunshine in two cities during the year. Observe the double bar graph and answer the following question.

In which month is the difference between average hours of sunshine of two cities least?



- December (2) May
- January
- February (4)

035 If one of the number of a Pythagorean triplet is 10, the triplet is: (1) (23, 25, 10) (2) (10, 24, 26) (3) (5, 8, 10) (4) (3, 4, 10)

036 If one number is twice the other number and the sum of the squares of two numbers is 50,000, then find the difference of numbers.

- (1) 10000

- 10

037 Evaluate : $\sqrt[3]{1372} \times \sqrt[3]{1458}$

- (2) 136
- (3) 116
- 106

038 If a = 12, b = -5 and c = -7, then the value of $a^3 + b^3 + c^3$ is:

- (1) 1360
- 420
- (3) 1260 (4) -1260

039 The value of a smart phone depreciates every year by 40%. Find out its value after 2 years if its present value is ₹ 70000.

- (1) ₹ 28000
- (2) ₹ 16800
- ₹ 25200 (4) ₹ 35000

SJ91

040 Which of the following cannot be true for a polyhedron?

(1)
$$V=4, F=4, E=6$$

$$V(2)$$
 $V=6, F=8, E=12$

(3)
$$V=20, F=12, E=30$$

$$V=4, F=6, E=6$$

041 Consider the following distribution:

Cl	ass	0-20	20-40	40-60	60-80	80-100
Freq	uency	17	28	32	f	19

If the mean of the above distribution is 50, what is the value of f?

- (2) 34
- . (3) 56
- (4) 96

042 The mean of 20 observations is 19. On checking it was found that the two observations were wrongly copied as 3 & 6. If wrong observations are replaced by correct values 8 and 9, then what is the correct mean?

- (H) 19.4
- (2) 16.6
- (3) 15.8
- (4) 14.2

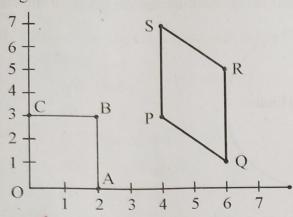
043 A person has 2 bags. First bag has 3 black and 4 white balls. Second bag has 4 black and 3 white balls. A bag is selected at random and then a ball is selected from it. Find the probability of the ball to be black.

- (2) $\frac{1}{4}$ (3) $\frac{1}{7}$

044 What is the probability that the number selected from the numbers 1, 2, 3, 30 is a prime number.

- $(1) \frac{1}{29}$
- (2) $\frac{5}{6}$
- . (4) $\frac{2}{3}$

145 Identify the correct coordinates of the vertices of rectangle OABC from the adjoining figure.



- MAY O(0,0), A(2,0), B(2,3), C(0,3)
- P(4,3), Q(6,1), R(6,5), S(4,7)(2)
- O(0,0), A(0,2), B(3,2), C(3,0)(3)
- $(4) \rightarrow O(1,1), A(0,2), B(2,3), C(3,3)$

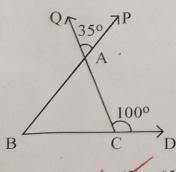
046 A cistern can be filled by one tap in 4 hours and by another tap in 3 hours. How long will it take to fill it, if both taps are opened together?

- (1) $\frac{11}{7}$ hours $\frac{12}{7}$ hours (3) $\frac{7}{12}$ hours (4) $\frac{7}{11}$ hours

047 Choose the correct remainder when $p(x):3x^2+4x+5$ is divided by g(x):x-2:

- (1) 20
- (2) 25
- **-** (3) 30 (4) 35

048 In the Fig. $\angle QAP = 35^{\circ}$ and $\angle ACD = 100^{\circ}$. Find $\angle ABC$:

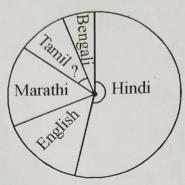


- 55° (1)
- 750 (3)
- (4) 50°

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049 In India people speak different languages. Choose the correct option in degrees which represent the number of people speaking Tamil using the information given in the chart:

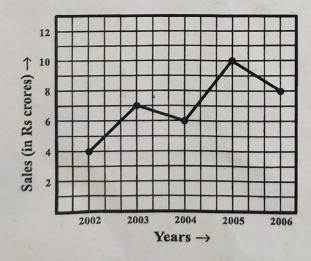


Number of People Language

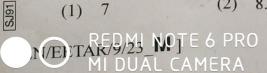
- Hindi 40 (i) 12 English (ii) 9 (iii) Marathi (iv) Tamil
- Bengali 4 (v) 72 Total
- (1) 45°
- (2) 35°
- $(3), 20^{\circ}$
- (4) 60°

050 The following line graph shows the yearly sales figures for a manufacturing company. Study the line graph and answer the following question.

The average sales of the company of the even years will be,



- (1) 7
- (2) 8.5
- 18



SECTION - 'B' : ENGLISH

ch t:

051		ence.	
		(A) butter	
		(B) is a	
		(C) bread and	
		(D) combination	
		(E) tempting	
	Cho	oose the correct answer from the options given below:	
	(1)	(D), (A), (E), (C), (B) (2) (A), (B), (D), (C), (E)	
1	(3)	(C), (A), (B), (E), (D) (4) (A), (B), (E), (C), (D)	
052		pose the correct option that has the right rearrangement of words to make a metence.	aningful
	((A) is important	
		(B) rules	
		(C) it	
		(D) to observe	
		(E) traffic	
	Cho	oose the correct answer from the options given below:	
	(H)	(C), (A), (D), (E), (B) (2) (D), (A), (B), (C), (E)	
	(3)	(E), (B), (A), (C), (D) (4) (A), (B), (C), (E), (D)	
. 05			
053		oose the correct option to fill in the blanks	
	The	e patient was weak to walk without help.	
	(1)	too (2) little (3) much (4) few	
054	4 Cho	oose the correct preposition:	
	Are	e you looking for anything particular ?	
SJ91	(1)	over (2) among (3) above (4) in	
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05	5 Match the following books/poems with their authors/poets:	
	Books / Poems Authors / Poets	
	(A) Treasure Island (I) Major H.P.S. Ahluwalia	
	(B) Swami and Friends (II) Robert Louis Stevenson	
	(C) Harry Potter (III) R.K. Narayan	
	(D) The Summit Within (IV) J.K. Rowling	
	Choose the correct answer from the options given below:	
	(1) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)	
	(A)-(II), (B)-(III), (C)-(IV), (D)-(I)	
	(3) (A)-(I), (B)-(II), (C)-(IV), (D-(III)'	
	(4) (A)-(III), (B)-(I), (C)-(IV), (D)-(II)	
050	6 Choose the correct option.	
	The mason is building the wall.	
	The above sentence would be written in passive form as:	
	(1) The wall are being built by the mason.	
4	The wall is being built by the mason.	
	(3) The mason is being built by the wall.	
	(4) The wall was being built by the mason.	
057	Choose the correct option.	
	His is in the ascendant.	
	(1) galaxy . (2) universe (3) star (4) luckily	
058	Identify the error and choose the correct option.	
	Energy is very essential in succeed in life.	
1	in-to (2) is-was (3) in-for. (4) is-were	
059	Choose the correct option:	
	Ramesh and his brother dancing.	
SJ91	(1) was (2) were . (3) will (4) would	
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060	Choose the correct option and fill in the blanks:
	My sister said, "You lied to me yesterday."
	My sister said that to her
	(1) you had lied, yesterday '
	(2) I had lied, yesterday
, All	I had lied, the previous day
1	(4) you had lied, the previous day
061	Identify the subject in the following sentence:
	The Board of Directors has arrived.
	(1) The Board of Directors
	(3) Directors (4) The Board of
062	Choose the correct option:
	Sam is a man.
	(1) first (2) handsome (3) half (4) delicious
063	Choose the correct option to fill in the blank:
	The man died in the hospital.
	(1) injury (2) injure (3) to injure injured
064	Identify the positive degree from the following options:
	(1) Hottest (4) Hotters
065	5 Choose the correct option to complete the following sentence:
	Did see her paintings ?
	(1) her (2) them (3) you (4) him
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Direction: Read the passage given below: (Q. No. 066 to 070)

Valentin Hauy developed a system of reading for the blind. He printed normal letters in relief that could be felt by a touch of finger. He also started a school for the blind children. Hauy's system of reading for the blind was very useful. But it was quite difficult to learn. Moreover, it was only a reading system. There was no way for the blind to write in this system. In 1819, a ten-year-old blind boy named Louis Braille entered Hauy's school. He was an intelligent student and quickly learnt to read with the help of embossed letters. But he soon realised the disadvantages in Hauy's system. He made up his mind to develop an easier method of reading and writing for the blind. And in 1824, when he was only 15, Braille invented a system of writing which has been accepted all over the world. He was yet a student in Hauy's school. This school is now known as the National Institute for Blind Children. It is supported by the French government.

On the basis of your understanding of the passage, answer the following questions:

066	What according to the passage was the major disadvantage in Hauy's system	n ?
	(1) It was difficult to comprehend.	
b	Hauy's system was difficult for the blind to use for writing.	
	(3) It was easy to learn.	
	(4) It was a regular reading and writing system.	
067		
067		
	(1) A blind boy	
	(2) A general student in Hauy's school	
	The inventor of a system of reading and writing for the blind	
	(4) A ten year old boy	
068	He printed letters in relief.	
	Here the word - 'relief' means	
	(2) in a depressed form	
	(3) normal form (4) in a raised form	
,		
069	,	
V	(1) create (2) realize (3) discover (4) unearth	
070	Give the antonym of the word - 'develop'.	
	(1) grow decline. (3) overweight (4) ripe	
	(4) ripe	
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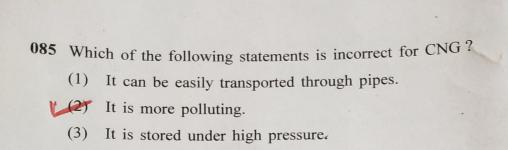
071	Choose the correct option:		
	The synonym of 'take' is		Frag
	(1) except (2) accept (3) ignore	(4)	refuse
072	Choose the correct option:		
	The antonym of 'Stiff' is		
	(1) bland (2) dark (3) limp	(4)	bright -
073	Choose the correct option to fill in the blank:		
	They aren't good scuba divers,?		
	(1) could they? are they? (3) can they?	(4)	will they?
074	Which of the following is an assertive sentence?		
0/4	(1) Do you enjoy Idli Sambhar?		,
	(2) You are requested to stand in line.		
	The Taj is a beautiful monument.		
0	to all team has won the match		
	(4) Hurrah! the school team has won the material		
075	Match the poems/books with poets/authors:		
0/2	Poems/Books Poets/Authors		
	Dobindranath Tagore		
	(H) Jawaharlal Nehru		
	(B) Charles Dickens		
	7. Tulfikar Ghose		
	(D) Discovery of India (IV) Zuffikar Ghose Choose the correct answer from the options given below:		
	(II)		
	(2) (A)-(IV), (B)-(I), (C)-(II), (D)-(III)		1
	(3) (A)-(II), (B)-(IV), (C)-(III), (D-(I) (A)-(I), (B)-(III), (C)-(IV), (D)-(II)		
SJ91			[Contd.
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SECTION - 'C' : GENERAL SCIENCE

	that results in lightning -
076 Ident	tify the correct sequence of process that results in lightning -
	(A) Magnitude of accumulated charge becomes large. (B) Accumulation of negative charge near the lower edges of cloud.
	(B) Accumulation of negative charge hear the
	anductor of charges.
	(C) Air becomes conductor of charges. (D) Accumulation of positive charge near the upper edges of cloud.
	(E) Negative and positive charge meet producing streaks of bright light and sou
	called as lightning.
Choo	ose the correct answer from the options given below:
(1)	(A), (C), (B), (D), (E) (2) (D), (B), (C), (A), (E)
1:(3)	(D), (B), (A), (C), (E) (4) (A), (C), (B), (D), (E)
077 The c	calorific value of a fuel is expressed in the unit -
(1)	g/J (2) kg/J (3) kJ/kg (4) J/g
078 To electr	ectroplate silver (Ag) on a metal object, what will you choose as cathode, anode a rolyte?
(1)	Cathode - metal object, Anode - silver bar, Electrolyte - copper salt
(2)	Cathode - silver bar, Anode - metal object, Electrolyte - silver salt
(3)	Cathode - metal object, Anode - silver bar, Electrolyte - silver salt
(4)	Cathode - copper rod, Anode - silver bar, Electrolyte - copper salt
079 Rashi	was unable to hold the greasy tumbler of milk in her hand. It would be because
(1)	Greasing has made the surface smooth, increasing the friction
(2)	Greating has made the surface rough degrees.
	Steading mas made the surface smooth and
(4)	Greasing has made the surface rough, increasing the friction
	fight, increasing the friction
080 'Comb	oine' is a machine. Identify from the following of
(h) I	For harvesting and threshing (2) For sowing
	throughing and sowing and home
TO LABOURA D	migation and sowing
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			,				
081	Tadı	pole develops into an	adult frog by th	ne pro	ocess of -		
	(1)		Metamorphosis			(4)	Adaptation
082	Forc	e acting opposite to	the direction of	motic			
	(1)	Gravitational Force		(2)	Electrical Ford		
1	(3)	Friction Force		(4)	Atmospheric I	Pressur	e
083	rest	of the delicate ear is er ear to Inner ear -	rgans that help to buried deep inside	o hear de the	sound. Its oute skull. Identify	r portion	on can be seen. The rect sequence from
		(A) Auditory Nerv	e				
		(B) Ear drum					
		(C) Pinna					
		(D) Ear tube ·					
		(E) INNER EAR					
	Cho	ose the correct answer	er from the option	ons gi	iven below:		
L	(1)	(C), (D), (B), (E), (E)	A)	(2)	(B), (C), (D),	(E), (A	1)
	(3)	(A), (B), (C), (D), (C)	(E) ·	(4)	(D), (E), (A),	(B), (C	C) \
084	Mat	ch List I with List II					
		List-I	List-II				
	((A) Braille	(I) Splitting o	f whi	te light into se	ven co	lours
	(B) Kaleidoscope	(II) Left of the	e obje	ct appears righ	t and r	ight appears left
	(C) Dispersion	(III)Resource	for vi	sually (Blind) o	hallen	ged person
	(D) Lateral inversion	(IV)Beautiful p	attern	s are formed be	cause o	f multiple reflection
	Cho	ose the correct answer	er from the option	ons g	iven below:		
	(1)	(A)-(I), (B)-(IV), (C	(C)-(III), (D)-(II)				
	(2)	(A)-(I), (B)-(II), (C))-(III), (D)-(IV)				
9	(3)	(A)-(III), (B)-(IV), ((C)-(I), (D)-(II)				
	(4)	(A)-(IV), (B)-(II), (C)-(III), (D)-(I)	•			
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It is used as fuel for transport vehicles.

- 086 Amish has to demonstrate a Science Activity on Ignition temperature from the objects given to him like paper sheets, candle, matchbox and water. The correct sequence for the activity to work will be -
 - (A) Light the candle.

(4)

- (B) Pour the water in one of the cups.
- (C) Continue heating both the cups.
- (D) Make two paper cups by folding a sheet of paper.
- (E) Heat both the cups separately with a candle.

Choose the correct answer from the options given below:

- (1) (D), (C), (B), (E), (A).
- (2) (D), (B), (E), (A), (C)
- (D), (B), (A), (E), (C)
- (4) (B), (D), (E), (A), (C)
- 087 Match List I with List II:

Call organelles

List-II

Function

Cell organelles

(I) Contains cell organelles

- (A) Nucleus(B) Cell membrane
- (II) Control center of all activities of cell
- (C) Chromosomes
- (III) Transfer of characters
- (D) Cytoplasm
- (IV) Provide shape and protection

Choose the correct answer from the options given below:

- (A)-(II), (B)-(IV), (C)-(III), (D)-(I)
 - (2) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
 - (3) (A)-(III), (B)-(IV), (C)-(II), (D)-(I)
 - (4) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)

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088 Identify the name of a book carrying in	forma	tion about endangered species from the
following:	HOHIIIa	titon about champs
Red Data Book	(2)	Record Data Book
(3) Record Book	(4)	Observation Book
089 Identify the traditional methods of Irriga	tion -	
(a) Chain pump		
(b) Lever system		
(c) Sprinkler system		
(d) Drip system		
(1) Both (a) and (c)	(2)	Both (a) and (b)
(3) Both (c) and (d)	(4)	Both (d) and (a)
		C (1 Callering
090 Name a National Park situated in Pachn		
Satpura National Park	(2)	Bori National Park
(3) Jim Corbett National Park	(4)	Tawa National Park
O91 Ankush has just entered his adolescence to remain healthy. Which of the following and healthy?	years. ng set	He wishes to know what should be eaten of food should he consume to remain fit
Milk, rice, dal, leafy vegetables		
(2) Chips, leafy vegetables, milk, burg	ger	and the second of the second o
(3) Milk, dal, leafy vegetables, fried s	snacks	
(4) Dal, rice, burger, chips		
092 At puberty which hormone is secreted	by ova	
Estrogen	(2)	Growth hormone
(3) Testosterone	(4)	Insulin
and Maternamboois in first in and all all has	41.1.1	
093 Metamorphosis in frog is controlled by (1) Insulin Thyroxine		
(1) Insulin Thyroxine	(3)	Estrogen (4) Adrenaline
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ts

094	Cho	Ose the feesi	ble displacen	ent reaction	n froi	n the options	given below	:
A	a	Copper sulp	shoto + Zino	oranules	(2)	n the options Iron sulphate	+ Copper to	irnings
C					(4)	Zinc sulphate	+ Copper to	urnings
	(3)	Zinc sulpha	te + Iron nai	IS	(4)	Zime sail		
005	DI	.,			Ca	d to store food	d items becau	ise these are
095				e mostly pi	referre	d to store 199		
	(1)	non biodegr						
	(2)	non reactive						
	(3)		ctor of heat a	and electric	city			
	(4)	more expen	sive					
096		arrent is passenected to -	ed through c	opper sulph	nate so	olution copper	gets deposite	d on the pla
	(1)	positive terr	minal of batt	ery	(2)	negative term	inal of batter	y
	(3)	when batter	y is not com	nected	(4)	copper depos	ited on both	plates
097	ISR	O stands for						
	(1)		nce Research	Organisati	on			
	(2)		l Science Re			ion		
		Indian Space				ion		
P	(4)		esearch Orga					
	(1)	merstate re	eseuren orga	msation				
098	Iden	ntify which is	not a water	pollutant f	rom th	ne following:		
	_	Sewage	Alg	gae		Fertilisers	(4) Weed	licides *
099	Whi	ich of these g	gases are resp	onsible for	globa	al warming?		
-	M	CO ₂ , metha	ne and water	vapour	(2)	CO ₂ , sulphur	dioxide, wat	er vanour
	(3)	CO, CO ₂ ar	nd water vap	our	(4)	CO ₂ , ozone a	and methane.	er vapour
						-		N
100	The	bread or idli	dough beco	mes fluffy	becaus	se of -		
	(1)	Heat			(2)	Grinding		
5	135	Growth of	yeast cells .		(4)	Kneading		
1602								
EN/I	EETA	AR/9/23_M]		, 2	.2			[Contd
		EDMI NOTE						[Contd
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SECTION - 'D' : SOCIAL STUDIES

	The neighbourhood markets are the ones which (1) are far from our house (2) are very expensive provide all necessary items (4) provide less items
	The source of fresh water available for human use is - (1) Rivers (2) Rain (3) Drains (4) Water vapour
	The Khilafat Movement was led by whom, from the following? (1) Mahatma Gandhi (3) C. R. Das (4) Mahamud Ali (4) Mahamud Ali
104	The Veda Samaj established in Madras in 1864 worked for which of the following causes?
L	 Promotion of man To abolish caste distinctions and for improving the conditions of women Poor people Against child marriage
105	The Ladakh desert is mainly inhabited by - (1) Christians and Muslims (3) Christians and Buddhists (4) Only Buddhists
	From the following options, choose which is not true about the Internet? (1) Provides worldwide information (2) Provides interaction Allows moving physically from one place to another (4) Enhances E-Commerce
10'	7 From the following, choose the region that is known as 'Orchards of the World'. (1) Coniferous region (2) Tropical region (3) Mediterranean region (4) Temperate region
10	(1) Igneous (4) Extrusive igneous rock (5) Sedimentary
F	Contd REDMI NOTE 6 PRO MI DUAL CAMERA

109	9 Ma	tch List I with List I	I :						
		List-I			List-				,
	(A	A) Right to Equality	00	(I)	Proh	ibits human t	rafficking		
		3) Right to Freedom				al before law			
	(C	C) Right to Freedom	of Religion	(III)	The	right to form	association	ns	
	(E) Right against Exp	loitation	(IV)	The	right to practis	e any religi	on of their	ch
	Cho	oose the correct answ							-
	(1)	(A)-(III), (B)-(I), (C	C)-(IV), (D)-	-(II)	(2)	(A)-(II), (B)-	(III), (C)-((IV), (D)-((I)
	(3)	(A)-(I), (B)-(II), (C)-(III), (D-(I	IV)	(4)	(A)-(IV), (B))-(III), (C)·	-(II), (D)-((I)
110	Iden	ntify the crop which	is not classi	fied a	as a p	lantation crop	?		
1	(1)	Rice (2)	Tea ·		(3)	Sugarcane	(4) C	ashew	
111	Who	founded the "Brahi	no Samaj" '	?					
	(1)	Dayanand Saraswat	i	M	(2)	Raja Rammo	han Roy.		
	(3)	Ishwar Chandra Vic	dyasagar		(4)	Pandita Ram	abai .		
			feering						
112	Cho	ose the correct mean	ing of 'Pate	nt'.					
	(1)	It means adding the	e value of a	ny co	mmo	dity.			
	(2)	It means enhancing	the usabilit	ty of	any tł	ning.			
	(3)	It means reducing of	cost of prod	uction	1.				
,	(4)	It means the exclus	ive right ov	er an	y idea	a or invention			
			familia.						
113	Who	am I?	bearing to						
	I am	founder of Sur dyn	asty.						
	(1)	Humayun (2)	Sher Shah	1.	(3)	Alauddin	(4) Ge	enghis Kha	an
44.4	Idont	tify the source of fun	nds for the	Gram	Panc	chavats.			
114		Income tax	CO the	Gram	(2)	Government	school's fe		
	(1)	Taxes on national h	iohways		(45	Taxes on hou			-
	(3)		m .	•	d by		ises, marke	t places e	tc.
115	Choo	ose the landform, wh	L avees	orme	(3)	Meanders	. (M +		
	(1) _{PE}	Ox-bow (2) DMI NOTE 6 PRO	Levees		(3)	Tyledidels	LA) Lo	ess	
	MI	DUAL CAMERA		24				10	
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116	Iron made from iron ore is the product of
	(1) Marine industry (2) Mineral based industry
	(3) Agro based industry (4) Forest based industry
117	When and to whom the British Parliament transferred their powers in order to ensure a
	more responsible management of Indian affairs?
	(1) 1857, East India Company
	(2) 1859, Lawrence - The Viceroy
L	(3) 1858, Governor General with the title of Viceroy
	(4) 1887, Dinshaw Wacha
118	of the Committee of the province
	to life including the Right to health?
	(1) Article 15 (2) Article 360 (3) Article 12 (4) Article 21
119	Choose the meaning of the word Metamorphic from the following -
	(1) Fire (2) Settle down
1	(3) Change of form (4) Air
	m m
20	Match List I with List II:
	List-I
	(A) The Brahmo Samaj (I) Jyotirao Phule
	(B) The Ramkrishna Mission (II) Swami Dayanand
	(C) Gulamgiri (III) Raja Rammohan Roy
	(D) Arya Samaj (IV) Swami Vivekananda
	Choose the correct answer from the options given below:
	(I) (B) - (IV), (C) - (I), (D) - (II), (A) - (III)
1	(H) (D) (H) (D) (H) (D) (D)
	(2) (A) - (IV), (B) - (III), (C) - (II), (B) - (I) (3) (C) - (II), (D) - (III), (A) - (IV), (B) - (I)
	(II) (D) (II) (A) - (IV)
	(4) (D) - (II), (C) - (III), (B) - (I), (A) - (IV)
	Guisch rote! from the following options:
21	Choose the correct definition of 'birth rate' from the following options:
	The number of hirths per year
	(2) The change in total population during a specific time
-	The number of live births per 1,000 people
J.	(4) The number of live births per year, per 10,000 people
	[Contd
	25

REDMI NOTE 6 PROMI DUAL CAMERA

122 Match List I with List II:

List-I

List-II

- (A) Intensive subsistence (I)
 - Slash and burn
- (B) Shifting cultivation
- (II) Amount of capital use is large
- (C) Nomadic herding
- (III) Prevalent in the thickly populated areas
- (D) Commercial farming (IV) Move from place to place with their animals Choose the correct answer from the options given below:
- (1) (A)-(I), (B)-(II), (C)-(IV), (D)-(III) (A)-(III), (B)-(I), (C)-(IV), (D)-(II)
- (3) (A)-(II), (B)-(III), (C)-(I), (D-(IV) (4) (A)-(IV), (B)-(I), (C)-(II), (D)-(III)
- 123 Which of the following is a public sector company?
 - (1) Maruti Suzuki India Limited
- (2) Anand Milk Union Limited
- Steel Authority of India Limited (4) Pesticide Factory of Union Carbide
- 124 Arrange in chronological order:
 - (A) Tughlaq Dynasty
 - (B) Early Turkish
 - (C) Khalji Dynasty
 - (D) Rajput Dynasty
 - (E) Lodi Dynasty

Choose the correct answer from the options given below:

- (1) (D), (C), (A), (E), (B)
- (D), (B), (C), (A), (E)
- (3) (C), (A), (B), (E), (D)
- (4) (B), (D), (C), (E), (A)
- 125 Match List I with List II:

List-I

List-II

- (A) Khilafat Agitation
- (I) Mohammad Ali Jinnah
- (B) Rowlatt Act
- (II) Viceroy Curzon
- (C) Salt March
- (III) Shaukat Ali
- (D) Partition of Bengal (IV) Mahatma Gandhi

Choose the correct answer from the options given below:

- (1) (B) (I), (C) (II), (D) (III), (A) (IV)
- (A) (III), (B) (I), (C) (IV), (D) (II)
- (3) (D) (IV), (B) (III), (C) (I), (A) (II)
- (4) (A) (III), (C) (II), (D) (I), (B) (IV)

SECTION - 'E': INTELLIGENCE

126 $\frac{2}{5}:\frac{8}{25}::\frac{11}{15}:$

1	1331
Chr.	225

$$(2) \quad \frac{121}{3375}$$

(3)
$$\frac{111}{155}$$

$$(4) \quad \frac{128}{55}$$

127 If word MATH is coded as 26, 2, 40, 16, then code for the word BOOK is -

128 A, B, C, D are four friends. A is shorter than B but taller than C who is shorter than D. Who is shortest among all -

$$(3)$$
 C

129 Choose the correct alternative from the given options:

If 8th of April falls on Monday, what Day would be the 30th May of that year?

- (1) Sundav
- (2) Monday (3) Tuesday
- Wednesday

130 If the English alphabets are divided into two equal halves from A to M and N to Z such as A corresponds to N, then which letter in the later half would be corresponding to letter



$$(3)$$
 Z ,

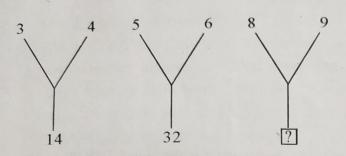
131 Arrange the given responses in a meaningful sequence -

- (A) Leaf
- (B). Fruit
- (C) Stem
- (D) Root
- (E) Flower

Choose the correct answer from the options given below:

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132 Choose the option that will replace question mark (?) in the following -



- (1) 28
- (2) 42
- (3) 74
- (4) 72

- 133 Find the odd one out.
 - (1) Alphonso
- (2) Kesar
- (3) Malgova
- (4)

Sherbati

- 134 Find the odd one out.
 - (1) Rhombus
- (2) Square
- (3) Rectangle
- (4)

Kite

- 135 Choose the odd one out.
 - (1) Scissors
- (2) Knife
- (3) Axe
- (A)

Hammer .

136 Complete the analogy

36:225::1225:____

- (1) 7929
- (2) 6929
- 5929
- (4) 4929
- 137 Find the missing number, which has the same relationship with the other number on the basis of the relation between the numbers in the given pair.

16:41::20:____

- (1) 71
- (2)

- (3) 44 (
- (4) 67

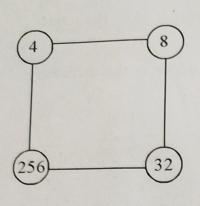


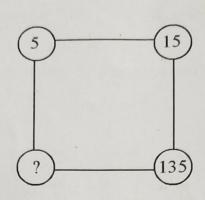
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138	Complete the analogy.
	Thermometer: Temperature::: Current.
	Ammeter (2) Voltmeter (3) Anemometer (4) Berometer
139	Arrange the given words in the sequence in which they occur in the dictionary.
	(A) Aaerstd
	(B) Aaersted
	(C) Amquarine
	(D) Acgledhi
	(E) Acgledih
	Choose the correct answer from the options given below:
7	(1) (A), (B), (C), (D), (E) (2) (A), (B), (D), (C), (E)
V.	(3) (A), (B), (D), (E), (C) (4) (A), (B), (C), (E), (D)
140	Find the missing word, which has the same relationship with the other word as that between words of different pair.
	Pie : Cake :: π :
	(1) Pasta (2) Pastry (3) Mathematics (4) Noodles
	(1) Tasta (2) Tastry ((4) Troodies
141	Complete the analogy.
	Work: Joule::: Watt.
	(1) Volume (2) Area (3) Time Power
142	Complete the analogy.
	Chennai: Tamil Nadu:: Kohima:
L	Nagaland (2) Gujarat (3) Orissa (4) Meghalaya
143	Choose the odd one out.
	ZXV, LJH, IGE, UTR, PNL
	(1) PNL (2) IGE (3) UTR (4) ZXV
EN/	EETAR/9/23_ M] 29 [Contd
	REDMI NOTE 6 PRO
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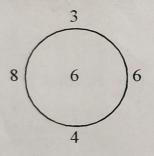
144 Find the missing number

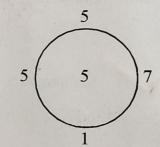


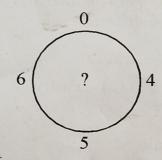


- (1) 3800
- (2) 3635
- (3) 3435
- (4) 3400

145 Find the missing term out of the options given below after studying the relationship among the given figures







- (1) 7
- (2) ϵ
- (3) . 4

(4) 5

146 Decipher the pattern (study the pattern and fill in the blank)

5	40	7
11	77	6
3	?	9

- (1) 29 / (2) 43

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 MIDUAL CAMERA

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- (3) 52

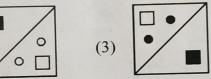
147 Which letter will come in the place of '?'



- (1) M

148 Which of the following is the water image of the given figure?









149 Identify the correct mirror image of word BLINK \uparrow_Y along the line XY.

- BLINK (2)
- BJINK (E)
- (4) BJINX

150 Find the next pattern in the sequence







