



## SET 1

### 1. What is Sukanya Samriddhi Yojana?

- (1) A scheme to provide bicycles for girls studying in the 10th class.
- (2) A scheme to develop self-defence skills in girls.
- (3) A scheme to provide skills that give employability to women.
- (4) A small deposit scheme for the girl child.

**ANS:** 4.A small deposit scheme for the girl child.

**EXPLANATION:** Sukanya Samriddhi Yojana (SSY) is a small deposit scheme of the Government of India.

**Some features of SSY :**

- ❖ SSY is one of the National Savings Schemes offered especially for securing a girl child's future.
- ❖ Minimum deposit 250/-Maximum deposit 1.5 Lakh in a financial year.
- ❖ Account can be opened in the name of a girl child till she attains the age of 10 years.
- ❖ The account shall mature on completion of a period of 21 years from the date of opening of account.

2.A group of friends are sitting in an arrangement with one each at the corner of an octagon. All are facing the centre. Medha is sitting diagonally opposite to Radha. Medha is on Seema's left. Raman is next to Seema and



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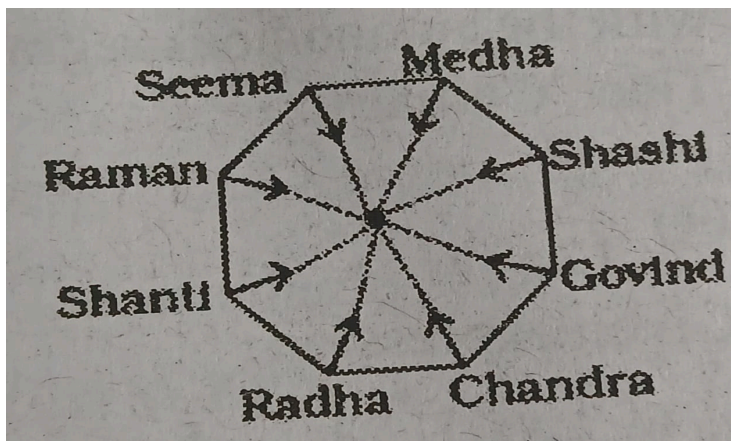
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opposite to Govind. Govind is on Chandra's right. Shanti is not on Medha's right but is opposite to Shashi. Who is opposite to Chandra?

- 1) Seema
- (2) Radha
- (3) Shanti
- (4) Raman

ANS: 1.Seema

EXPLANATION: According to given information, the sitting arrangement is,



Opposite to chandra is Seema

3.Which of the following countries is NOT a member of BIM- STEC?

- (1) Maldives
- (2) India
- (3) Nepal
- (4) Bhutan



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**ANS: 1**

**EXPLANATION:** The Bay of Bengal Initiative for Multi-Sectoral Technical and Economic Cooperation (BIMSTEC) is a regional organization that was established on 6th June 1997 with the signing of the Bangkok Declaration.

- ❖ **Headquarters: Dhaka**
- ❖ **First member joined: Myanmar (22nd December 1997)**
- ❖ **Members of BIMSTEC are India, Thailand, Myanmar, Nepal, Bangladesh, Sri Lanka and Bhutan.**

**4. The cost price of an article is 75% of the marked price. If a discount of 15% is allowed, then the profit or loss percentage is:**

- (1) 15.55% loss
- (2) 15% profit
- (3) 13.33% profit
- (4) 12.44% loss

**ANS: 3**

**EXPLANATION:** Let marked price = 100

**Cost price is 75% of 100 = Rs. 75**

**Discount = 15%**

**Selling price of article = 85% of 100 Rs. 85**

**Required percent profit**

$$= \frac{85 - 75}{75} \times 100$$

$$= \frac{40}{75} \% = 13.33\% \text{ profit}$$

**5. Out of Harish's monthly salary of 1 Rs.45000,  $\frac{1}{3}$  of the expenditures are on education and of the  $\frac{2}{6}$  expenditures are on food and other necessities. The rest of the salary goes towards his savings.**



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The amount of savings is:

(1) Rs. 22500

(2) Rs. 11250

(3) Rs. 12000

(4) Rs. 15000

ANS: 4

EXPLANATION: Harish's monthly salary = Rs. 45000

Amount of Savings

$$= 45000 - 45000 \times \frac{1}{3} - 45000 \times \frac{2}{6}$$

$$= 45000 - 15000 - 15000$$

$$= 45000 - 30000$$

$$= \text{Rs. } 15000$$

6. If  $\sin \theta = \frac{3}{4}$  and  $\cos \theta = \frac{5}{4}$ , then the value of  $\frac{1 + \tan \theta}{1 - \cot \theta}$  is :

1)  $\frac{11}{5}$

2)  $-\frac{8}{5}$

3)  $\frac{2}{5}$

4)  $-\frac{12}{5}$

ANS: 4

EXPLANATION:  $\sin \theta = \frac{3}{4}$ ;  $\cos \theta = \frac{5}{4}$

$$\tan \theta = \frac{\sin \theta}{\cos \theta} = \frac{\frac{3}{4}}{\frac{5}{4}} = \frac{3}{5}$$

$$\cot \theta = \frac{\cos \theta}{\sin \theta} = \frac{5}{3}$$



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$$\frac{1 + \tan \theta}{1 - \cot \theta} = \frac{1 + \frac{3}{5}}{1 - \frac{5}{3}} = \frac{8}{\frac{-2}{3}}$$
$$= \frac{8}{5} \times \frac{-3}{2} = -\frac{12}{5}$$

7. Which of the following states is NOT a member of 'Seven Sisters' states of North-East India?

- 1) Tripura
- 2) Mizoram
- 3) Meghalaya
- 4) Sikkim

ANS: 4

EXPLANATION:

- ❖ The seven sisters of North-east India - Arunachal Pradesh, Assam, Meghalaya, Mizoram, Tripura, Nagaland, Manipur
- ❖ Sikkim belongs to the group of North-eastern states but doesn't belong to seven sister states of North-east India.

8. In which year was The Environment (Protection) Act passed by the Parliament of India?

- (1) 1986
- (2) 1988
- (3) 1990
- (4) 1991

ANS: 1

EXPLANATION:

- ❖ The Environment (Protection) Act was passed by the Parliament of India in 1986.



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- ❖ The main objective of the act is to provide protection and improvement of the environment.
- ❖ The act was passed in the wake of the Bhopal gas Tragedy in Madhya Pradesh.
- ❖ The act came into force on 19th November 1986 was enacted under Article 253 of the Indian Constitution
- ❖ Environment Protection Act 1986 consists of 26 sections and 4 chapters.

9. Between which two cities does India's first semi high-speed train 'Vande Bharat Express' run?

- (1) Puri and Howrah Junction
- (2) Ahmedabad and Mumbai Central
- (3) Hazarat Nizamuddin and Jhansi Junction
- (4) New Delhi and Varanasi Junction

ANS: 4

EXPLANATION:

- ❖ The Vande Bharat Express is an Indian semi-high-speed train under the Indian government's Make in India initiative.
- ❖ Vande Bharat Express is also known as 'Train 18'.
- ❖ India's first semi high-speed train 'Vande Bharat Express' run between New Delhi and Varanasi Junction.
- ❖ The first Vande Bharat Express train was flagged off on 15th February 2019 by Prime Minister of India Narendra Modi.
- ❖ It was designed and manufactured by Integral Coach Factory (ICF) Chennai.



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**10. Select the option that is related to the third term in the same way as the second term is related to the first term.**

**Pediatrics: children: : neurology:?**

**(1) heart**

**(2) brain**

**(3) eyes**

**(4) veins**

**ANS: 2**

**EXPLANATION: Pediatrics deals with medical care of Children whereas Neurology deals with Brain.**

**11. Four words have been given, out of which three are alike in some manner and one is different. Select the odd one.**

**(1) Book**

**(2) Chalk**

**(3) Pen**

**(4) Marker**

**ANS: 1**

**EXPLANATION: With Chalk, Pen, Marker we write something. But 'Book' is different from these.**

**12. A cylinder has a height of 14 cm and the curved surface area is 528 cm<sup>2</sup>. The volume of the cylinder is:**



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(1) 1244 cm<sup>3</sup>

(2) 729 cm<sup>3</sup>

(3) 1584 cm<sup>3</sup>

(4) 2538 cm<sup>3</sup>

ANS: 3

EXPLANATION: curved surface area of cylinder = 528 cm<sup>2</sup>.

$$2\pi rh = 528$$

$$\Rightarrow 2 \times \frac{22}{7} \times r \times 14 = 528$$

$$\Rightarrow r = \frac{528}{22 \times 4} = 6 \text{ cm}$$

$$\text{Volume} = \pi r^2 h$$

$$= \frac{22}{7} \times 6 \times 6 \times 14 = 1584 \text{ cm}^3$$

13. Which of the following is a multi-barrel rocket system developed by DRDO?

(1) Trishul

(2) Pinaka

(3) Prithvi

(4) Dhanush

ANS: 2

EXPLANATION:

- ❖ Pinaka is a multi-barrel rocket launcher designed and developed by the Defence Research and Development Organisation (DRDO).
- ❖ Pinaka was developed for the Indian Army
- ❖ Dhanush is the indigenously developed howitzer in India manufactured by Kolkata Ordnance Factory.
- ❖ Trishul is a short-range surface-to-air missile (SAM) developed by DRDO.



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- ❖ Prithvi is the first surface to surface missile (SSM) developed by DRDO.

14.If the mass of a person is 60 kg on the surface of earth then the same person's mass on the surface of the moon will be:

- (1) 0 kg
- (2) 360 kg
- (3) 60 kg
- (4) 10 kg

ANS: 3

EXPLANATION:

- ❖ Mass is the measure of the amount of matter in a body.
- ❖ The mass of man on the surface of the moon will remain the same as on earth and is equal to 60kg.
- ❖ Mass doesn't depend on gravity and doesn't change according to location.
- ❖ Weight is defined as a measure of the gravitational force on the body at that place.
- ❖  $\text{Weight} = \text{Mass} \times \text{Surface Gravity}$ . Weight of a body changes according to the surface gravity.
- ❖ The acceleration due to gravity on moon is  $\frac{1}{6}$  th times that on earth i.e, the weight of the man on moon is  $60/6 = 10\text{kg}$

15.Who was honoured with the 55th Jnanpith Award for the year 2019?

- (1) A Achuthan Namboothiri
- (2) Krishna Sobti
- (3) Sobha Rao



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**(4) Chitra Mudgal**

**ANS: 1**

**EXPLANATION:**

- ❖ **Akkitham Achuthan Namboo-thiri popularly known as Akkitham was honoured with the prestigious Jnanapith Award in 2019 (55th Jnanapith award)**
- ❖ **He was regarded as a prominent figure in Malayalam poet.**
- ❖ **56th - Nilmani Phookan**
- ❖ **57th - Damodar Mauzo**
- ❖ **58th - Jagadguru Swami Rambhadracharya and shri Gulzar**

**16. Mahatma Gandhi started the famous 'Salt March' from Sabarmati to Dandi. In which district of Gujarat is Dandi?**

- (1) Navsari**
- (2) Surat**
- (3) Porbandar**
- (4) Kutch**

**ANS: 1**

**EXPLANATION:**

- ❖ **Dandi is located on the coast of the Arabian sea near the district of Navsari.**
- ❖ **Gandhi started the famous Dandi March on 12th March 1930.**
- ❖ **He started this 241 mile journey along with 78 satyagrahis.**
- ❖ **He concluded the 24 day March in Dandi village.**

**17. Which of the following passes connects Srinagar and Leh?**

- (1) Jelep La**
- (2) Nathu La**
- (3) Bara La**



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(4) Zoji La

ANS: 4

EXPLANATION:

- ❖ Zoji La is a mountain pass located in the Himalayas in Ladakh.
- ❖ Zoji La connects Srinagar and Leh.
- ❖ Bara-Lacha-La Pass connects Lahaul district in Himachal Pradesh with Leh district in Ladakh.
- ❖ Jelep La Pass connects Sikkim with the autonomous region of Tibet, China.
- ❖ Nathu La Pass connects Sikkim with the autonomous region of Tibet, China.

18.

The value of  $\frac{6}{5}$  of  $(\frac{1}{3} + \frac{2}{4}) - \frac{5}{6}$  of  $(\frac{3}{10} + \frac{12}{20}) - \frac{1}{6}$  is :

1)  $\frac{1}{3}$

2)  $\frac{3}{4}$

3)  $\frac{5}{6}$

4)  $\frac{1}{12}$

ANS: 4

EXPLANATION: Give expression

$$= \frac{6}{5} \text{ of } (\frac{1}{3} + \frac{1}{2}) - \frac{5}{6} \text{ of } (\frac{3}{10} + \frac{6}{10}) - \frac{1}{6}$$

$$= \frac{6}{5} \text{ of } (\frac{2+3}{6}) - \frac{5}{6} \text{ of } \frac{9}{10} - \frac{1}{6}$$

$$= \frac{6}{5} \text{ of } \frac{5}{6} - \frac{3}{4} - \frac{1}{6}$$

$$= 1 - \frac{3}{4} - \frac{1}{6}$$

$$= \frac{24 - 18 - 4}{24} = \frac{1}{12}$$

19. If  $a^3 - b^3 = 625$ ,  $a^2 - b^2 = 25$  and  $a + b = 5$  then the value of  $a^2 + ab + b^2$  is:

1) 125



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2)25

3)5

4)150

ANS: 1

EXPLANATION:  $a^2 - b^2 = 25$

$$(a + b)(a - b) = 25$$

$$5(a - b) = 25$$

$$\Rightarrow (a - b) = \frac{25}{5} = 5$$

$$a^3 - b^3 = 625$$

$$\Rightarrow (a - b)(a^2 + ab + b^2) = 625$$

$$\Rightarrow 5(a^2 + ab + b^2) = 625$$

$$\Rightarrow a^2 + ab + b^2 = \frac{625}{5} = 125$$

20. The angles of a triangle are  $2x^\circ$ ,  $(3x^\circ - 8^\circ)$  and  $(5x^\circ - 12^\circ)$ . The greatest angle of the triangle is:

1)  $112^\circ$

2)  $40^\circ$

3)  $118^\circ$

4)  $88^\circ$

Ans: 4

Explanation: Sum of angles of triangle =  $180^\circ$

$$\Rightarrow 2x + 3x - 8 + 5x - 12 = 180^\circ$$

$$\Rightarrow 10x - 20 = 180^\circ$$

$$\Rightarrow 10x = 200^\circ$$

$$\Rightarrow x = \frac{200^\circ}{10} = 20^\circ$$

$$2x = 2 \times 20^\circ = 40^\circ$$

$$3x - 8 = 3 \times 20^\circ - 8 = 52^\circ$$

$$5x - 12 = 5 \times 20^\circ - 12 = 88^\circ$$

21. Select the option that is related to the third letter cluster in the same way as the second letter cluster is related to the first letter cluster.



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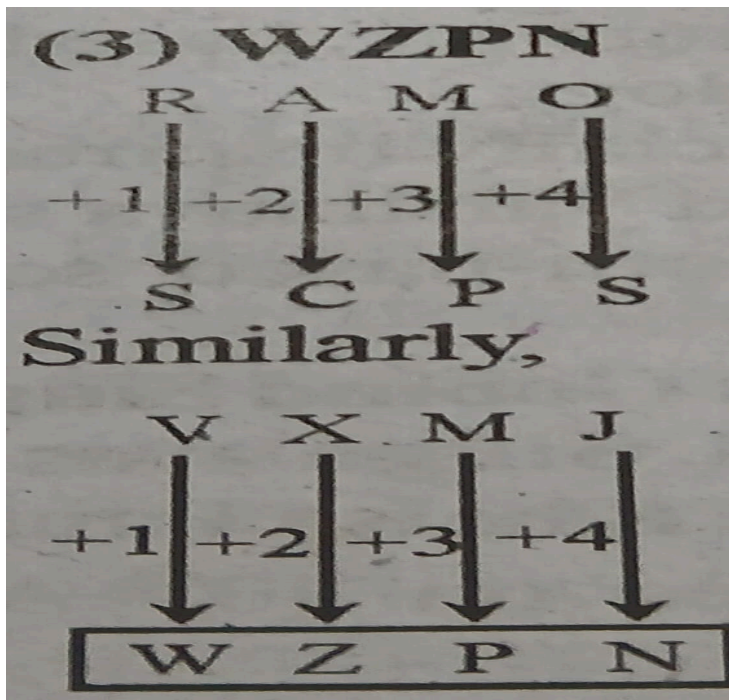


RAMO: SCPS :: VXMJ: ?

- 1)WQZN
- 2)WQPN
- 3)WZPN
- 4)WPZN

Ans: 3

Explanation:



22.Which of the following countries is NOT a permanent member of the United Nations Security Council?

- (1) France
- (2) United Kingdom
- (3) Japan
- (4) China

Ans: 3

Explanation:

- ❖ Among the four options, Japan is not a permanent member of the UN Security Council.
- ❖ The UN Security Council is composed of 15 Members.



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- ❖ **Five permanent members: China, France, Russian Federation, the United Kingdom and the United States,**
- ❖ **Ten non-permanent members: elected for two-year terms by the General Assembly (with end of term year)**

**23. Which of the following continents is the Gobi desert located?**

- 1) Europe**
- 2) North America**
- 3) Asia**
- 4) Africa**

**Ans: 3**

**Explanation:**

- ❖ **The Gobi desert is a large desert located in the Asian continent.**
- ❖ **The Gobi desert stretches across the majority of portions of both Mongolia and China.**
- ❖ **It is the fifth largest desert in the world. The complete area of the Gobi desert is 500,000 square miles.**

**24. Which of the following is in the list of Maharatna Central Public Sector Enterprises?**

- (1) India Tourism Development Corporation**
- (2) Central Coalfields Limited**
- (3) Coal India Limited**
- (4) Cochin Shipyard**

**Ans: 3**



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**Explanation:**

- ❖ **Coal India Ltd (CIL) is a Maha-ratna Public sector undertaking under ministry of coal**
  
- ❖ **Headquarters: Kolkata**
  
- ❖ **List of Maharatna CPSES Companies: Bharat Heavy Electricals Limited, Bharat Petroleum Corporation Limited, Coal India Limited, GAIL India Limited, Hindustan Petroleum Corporation Limited, Indian Oil Corporation Limited, NTPC Limited, Oil & Natural Gas Corporation Limited, Power Finance Corporation, Power Grid Corporation of India Limited, Steel Authority of India Limited, Rural Electrification Corporation Limited, Oil India Ltd, Hindustan Aeronautics Limited.**

**25. What is 'UBUNTU'?**

- (1) Operating system
- (2) Malware
- (3) External hard drive
- (4) Web Browser

**Ans: 1**

**Explanation:**

- ❖ **UBUNTU is the modern, open source operating system on Linux for the enterprise server, desktop, cloud and IoT**
- ❖ **UBUNTU is free and open-source software. Examples of operating systems are: Linux, Unix, DOS, Windows, Ubuntu Embedded operating system, Open BSD, Mac OS.**

**26. Which two banks were merged with Bank of Baroda with effect from 1 April 2019?**

- (1) Allahabad Bank and Canara Bank
- (2) Vijaya Bank and Dena Bank
- (3) Syndicate Bank and UCO Bank
- (4) Union Bank of India and Andhra Bank



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Ans: 2

Explanation:

- ❖ On 1st April 2019, Vijaya Bank and Dena Bank got merged with Bank of Baroda
- ❖ Vijaya Bank was a public sector bank with its corporate office in Bangalore, Karnataka, India.
- ❖ Dena Bank was an Indian public sector bank. It was headquartered in Mumbai.
- ❖ Bank of Baroda is a public sector bank headquartered in Vadodara.

27. In a rectangle, the length is twice the breadth and the perimeter of the rectangle is 48 cm. The area of the rectangle is:

(1) 512 cm<sup>2</sup>

(2) 128 cm<sup>2</sup>

(3) 288 cm<sup>2</sup>

(4) 144 cm<sup>2</sup>

Ans: 2

Explanation: Let Breadth of rectangle = x

Length = 2x

Perimeter = 48 cm

$$\Rightarrow 2(x+2x) = 48$$

$$\Rightarrow 3x = \frac{48}{2} = 24$$

$$\Rightarrow x = \frac{24}{3} = 8$$

$$\text{Area} = \text{length} \times \text{breadth} = 2x \times x = 2x^2$$

$$= 2 \times (8)^2 = 128\text{cm}^2$$

28. In which year did ISRO launch the Mars Orbiter Mission?



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(1) 2013

(2) 2015

(3) 2012

(4) 2014

**Ans: 1**

**Explanation:**

- **Mars Orbiter Mission (MOM), also known as Mangalyaan was launched by ISRO on 5th November 2013.**
- **It was the maiden interplanetary mission of ISRO. The mission got inserted into Martian orbit on 24th September 2014 in its first attempt.**
- **The mission was launched with an objective to explore and observe Mars surface features, morphology, mineralogy and the Martian atmosphere**
- **Launch Vehicle: PSLV - C25.**

**29. Which part of the computer is called its brain?**

(1) Monitor

(2) CPU

(3) Hard Disk

(4) ROM

**Ans: 2**

**Explanation:**

- ❖ **The CPU is the brain of a computer.**
- ❖ **CPU IS abbreviated as central processing unit.**
- ❖ **It contains all the circuitry needed to process input , store data, and output results.**



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30. Shweta and Harish completed a project with an income Harish worked for 30 days. If Rs.28,000. In this project Shweta worked for 20 days and their daily wages are in the ratio of 5: 6, then Shweta's share is:

- (1) Rs. 10,000
- (2) Rs. 12,000
- (3) Rs. 18,000
- (4) Rs. 16,000

Ans: 1

Explanation: Shweta's income : Harish's income

$$20 \times 5 : 30 \times 6 = 5 : 9$$

$$\text{Shweta's share} = \frac{5}{5+9} \times 28000$$

$$= \frac{5}{14} \times 28000 = \text{Rs. } 10,000$$

31. A class of 50 girls and 70 boys sponsored a musical programme. If 40% of the girls and 50% of the boys attended, approximately what percentage of the class attended the programme?

- (1) 42%
- (2) 48%
- (3) 44%

(4) 46%

Ans: 4

Explanation: Total number of boys and girls in a class = 50 + 70 = 120

No. of students present in programme

$$= 40\% \text{ of } 50 + 50\% \text{ of } 70$$

$$= \frac{50 \times 40}{100} + \frac{70 \times 50}{100}$$

$$= 20 + 35 = 55$$

$$\text{Required percent} = \frac{55}{120} \times 100$$

$$= 45.83\% , 46\%$$



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32. If all the special characters are dropped from the below arrangement, which of the following will be the 10th to the right of X?

3X!B9#F45 \*1K2\$8RS% Z

(1) R

(2) 8

(3) S

(4) 2

Ans: 1

Explanation: After dropping special characters:

3 X B 9 F 4 5 1 K 2 8 R S Z

10th to the right of X = R

33. Select the number from among the given options that can replace the question mark(?) in the following table.

5	4	3
6	5	4
7	6	5
384	245	?

1) 269

(2) 244

(3) 144

(4) 249



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ans:3

Explanation:

5	4	3
6	5	4
7	6	5
384	245	?

$$7^3 + 6^2 + 5 = 343 + 36 + 5 = 384$$

$$6^3 + 5^2 + 4 = 216 + 25 + 4 = 245$$

$$\text{Similarly, } ? = 5^3 + 4^2 + 3 \\ = 125 + 16 + 3 = 144$$

34. Select the option that is related to the third term in the same way as the second term is related to the first term.

Lawyer: court:: beautician: ?

- (1) ship
- (2) parlour
- (3) class
- (4) house

Ans: 2

Explanation: As Lawyer work/practice on court. Similarly Beauticians work on Parlour.

35. In general, the most appropriate average value in measuring central tendency is:

- (1) mode
- (2) mean
- (3) median
- (4) range

Ans: 2



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**Explanation:** The mean is normally the best measure of central tendency to use when data distribution is continuous and symmetrical.

**36. Which of the following units is used for measuring the amount of a substance?**

(1) Mole

(2) Tesla

(3) Joule

(4) Lux

**Ans: 1**

**Explanation:**

- The amount of substance is the number of particles that constitute the substance.
- The SI unit of the amount of substance is mol. One mole (mol) contains  $6.02214076 \times 10^{23}$  elementary entities.
- SI unit of magnetic field density - magnetic flux density tesla (T)
- SI unit of energy-joule (J)
- SI unit of illuminance-lux (lx)

**37. The greatest number that will divide 155, 260, 315 and leave the remainders 5, 10 and 15 respectively is:**

(1) 10

(2) 75

(3) 25

(4) 50

**Ans: 4**

**Explanation:** HCF of (155 - 5), (260 - 10), (315 - 15)

HCF of (150, 250, 300)

$150 = 2 \times 3 \times 5 \times 5$



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$$250 = 2 \times 5 \times 5 \times 5$$

$$300 = 2 \times 2 \times 3 \times 5 \times 5$$

$$\text{Required number} = 2 \times 5 \times 5 = 50$$

38. Who is the author of 'Rajata-rangini'?

- (1) Kalidasa
- (2) Chand Bardai
- (3) Kalhana
- (4) Jayadeva

Ans: 3

Explanation:

- Rajatarangini is an historical book written by historian Kalhana.
- Rajatarangini was written in the Sanskrit language.
- The book Rajatarangini deals with the history of the north-western Indian subcontinent, the kings of Kashmir.
- Kalhana wrote the Rajatarangini in the 12th century (1100-1150).

39. The simple interest on an amount of Rs. 3400 for 4 years is Rs. 680. The rate of interest is:

- (1) 6%
- (2) 8%
- (3) 5%
- (4) 4%

ANS: 3

$$\text{EXPLANATION: Rate} = \frac{S.I \times 100}{T \times P}$$

$$= \frac{680 \times 100}{4 \times 3400} = 5\%$$

40. The adjacent angles of a rhombus are in the ratio of 3: 6. The smallest angle of the rhombus is:

- (1) 40°
- (2) 120°
- 3) 80°



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(4)  $60^\circ$

ANS: 4

EXPLANATION: ratio of adjacent angles of a rhombus 3: 6

$$3k + 6k = 180^\circ$$

$$\Rightarrow 9k = 180^\circ$$

$$\Rightarrow k = \frac{180^\circ}{9} = 20^\circ$$

Smallest angle =  $3k$

$$= 3 \times 20^\circ = 60^\circ$$

41. Pattachitra style of painting is one of the oldest and most popular art forms of which of the following states?

(1) Bihar

(2) Andhra Pradesh

(3) Odisha

(4) Rajasthan

ANS: 3

EXPLANATION:

- Pattachitra style of painting is one of the oldest and most popular art forms practiced in Odisha.
- These paintings are based on Hindu mythology.
- These are specially inspired by Jagannath and Vaishnava sect.
- These are cloth-based scroll paintings.

42. Which Sikh guru established the Khalsa Panth?

(1) Shri Guru Tegh Bahadur ji

(2) Shri Guru Gobind Singh ji

(3) Shri Guru Har Gobind ji

(4) Shri Guru Nanak Ji

ANS: 2

EXPLANATION:

- Guru Gobind Singh was the founder of the Khalsa Panth.
- It was founded on 13th April 1699.
- It was formed at Anandpur Sahib, 85 km from Chandigarh.



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43. Which of the following monuments is NOT located in Delhi?

- (1) Buland Darwaza
- (2) Alai Darwaza
- (3) Humayun's Tomb
- 4) India Gate

ANS: 1

EXPLANATION:

- Buland Darwaza is a UNESCO world heritage site.
- It is located at Fatehpur Sikri in Agra . popularly known as 'Door of Victory'.
- Buland Darwaza, also known as the 'Gate of Magnificence' is one of the largest gateways in the world with a height of 54 metres.
- It is the main entrance to the Jama Masjid at Fatehpur- Sikri.
- It was built in 1575 A.D.

44. Which of the following diseases is caused by a virus?

- (1) Cholera
- (2) Chicken Pox
- (3) Typhoid
- (4) Tuberculosis

ANS: 2

EXPLANATION:

- Chickenpox is caused by the varicella-zoster virus (VZV).
- It causes an itchy rash with small, fluid-filled blisters.
- The varicella vaccine is given in two doses.
- It is a highly contagious disease.
- Diseases caused by virus : Smallpox, Chickenpox, COVID-19, Polio, Rabies, Measles, Common cold.

45. The value of  $180 \div (2^3 + 3^2 + 1) + 37 - 20$  equal to

- 1) 27
- 2) 20



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3)23

4)25

ANS: 1

**EXPLANATION:**  $180 \div (2^3 + 3^2 + 1) + 37 - 20$   
 $= 180 \div (8 + 9 + 1) + 37 - 20$   
 $= 180 \times \frac{1}{18} + 37 - 20$   
 $= 10 + 37 - 20 = 47 - 20 = 27$

**46. In the domain of computers and the internet, what is the full form of URL?**

- (1) Unique Resource Location
- (2) Unique Revoked Location
- (3) Uniform Resource Locator
- (4) Universal Resource Locator

ANS: 3

**EXPLANATION:**

- URL is an acronym for Uniform Resource Locator.
- This describes an address that provides a path to a certain file on a server.
- It serves as a web address that identifies the location of a specific resource on the internet such as webpage, image or document.
- A URL has two main component :
  - ❖ Protocol identifier
  - ❖ Resource name

**47. The term 'Sericulture' is related to which of the following?**

- (1) Fish farming
- (2) Bird farming
- (3) Silk farming
- (4) Bee farming

ANS: 3

**EXPLANATION:**

- Sericulture is related to silk farming.



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- Sericulture is an agro-based industry. It involves the rearing of silkworms for the production of raw silk.

- ◆ Apiculture related to Bee farming
  - ❖ Horticulture related to Vegetable farming.
  - ❖ Pisciculture related to Fish farming.

48. A rope is divided into three different parts. The first part is  $\frac{1}{5}$  of the whole length, the second part is  $\frac{3}{2}$  of the first. The third part is what fraction of the rope?

1)  $\frac{3}{4}$

2)  $\frac{2}{3}$

3)  $\frac{1}{3}$

4)  $\frac{1}{2}$

ANS: 4

EXPLANATION: First Part =  $\frac{1}{5}$

Second part =  $\frac{3}{2}$  of  $\frac{1}{5} = \frac{3}{10}$

Third part =  $1 - \frac{1}{5} - \frac{3}{10}$

$$= \frac{10 - 2 - 3}{10} = \frac{5}{10} = \frac{1}{2}$$

49. The value of  $5\sin 14^\circ \sec 76^\circ + 3 \cot 15^\circ \times \cot 75^\circ + 2\tan 45^\circ$  is:

a) 1

b) 8

3) 10

4) 0

Ans: 3



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**Explanation:**
$$5\sin 14^\circ \sec 76^\circ + 3 \cot 15^\circ \times \cot 75^\circ + 2\tan 45^\circ$$
$$= 5\sin 14^\circ \times \sec (90^\circ - 14^\circ) + 3 \cot 15^\circ \times \cot(90^\circ - 15^\circ) + 2 \tan 45^\circ$$
$$= 5 \sin 14^\circ \times \operatorname{cosec} 14^\circ + 3 \cot 15^\circ \times \tan 15^\circ + 2 \tan 45^\circ$$
$$= 5 \times 1 + 3 \times 1 + 2 \times 1$$
$$= 5 + 3 + 2 = 10$$

**50. Which of the following shows a symbiotic relationship?**

(1) Funaria

(2) Lichen

3) Marsilea

4) Ulothrix

**Ans: 2**

**Explanation:**

- Lichen are the examples of a symbiotic relationship between algae and certain fungi.
- They are capable of producing their own food.
- The fungus provides shelter and maintains the humidity for algae inside the lichen body.
- The algae provides the food material to the fungus.
- The algae that is associated with fungus is a green or blue-green algae.

**51. Name the theme declared by United Nations for World Environment Day, 2020.**

(1) Beat Plastic Pollution

(2) Biodiversity

(3) Connecting People to Nature

(4) Water pollution



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**Ans:2**

**Explanation:**

- Since 1974, World Environment Day has been celebrated every year on 5th June.
- "Biodiversity" is the theme declared by the United Nations for World Environment Day, 2020.
- The 2020 World Environment day was hosted by Colombia.
- 2023 theme -"Solutions to Plastic Pollution"
- 2024 theme - Land restoration, desertification and drought resilience.

**52.Who was the founder of the Prarthana Samaj?**

- (1) Atmaram Pandurang
- (2) Swami Vivekananda
- (3) Raja Ram Mohan Roy
- (4) Swami Dayanand Saraswati

**Ans: 1**

**Explanation:**

- The Prarthana Samaj was established on 31st March 1867 in Bombay by Atmaram Pandurang.
- It was a leading society for socio-religious reform.
- It was inspired by the Brahma Samaj movement.
- Founder of Arya Samaj (1875) Swami Dayanand Saraswati
- Founder of Brahma Samaj (1828) - Raja Ram Mohan Roy
- Founder of Ramakrishna Mission (1897) - Swami Vivekananda

**53.Four number-pairs have given, out of which three are alike in some manner and one is different. Select the odd one.**

- (1) 12-96
- (2) 15-120
- (3) 13-104



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(4) 16-118

Ans: 4

Explanation:

12-96,  $12 \times 8 = 96$

15- 120,  $15 \times 8 = 120$

13- 104,  $13 \times 8 = 104$

But 16-118,  $16 \times 8 = 128 \neq 118$

(odd one)

54. The smallest 5 digit number that leaves a remainder of 6 when divided by 7 is:

(1) 10002

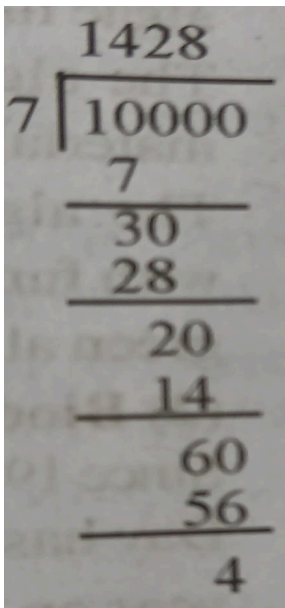
(2) 10009

(3) 10007

(4) 10003

Ans: 1

Explanation: smallest number of 5 digit = 10000



1428  
7  $\overline{)10000}$   
7  

---

30  
28  

---

20  
14  

---

60  
56  

---

4



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Required number =  $10000 + 6 - 4 = 10002$

**55. Through which of the following mediums can sound NOT travel?**

- (1) Steel
- (2) Vacuum
- (3) Air
- (4) Milk

**Ans: 2**

**Explanation:**

- Sound cannot travel through a vacuum.
- A vacuum is an area without any air, like space.
- Sound waves are travelling vibrations of particles in media such as air, water or metal.
- There is no matter for the vibrations to work in vacuum, so sound cannot travel.

**56. From among the given options, select the word which CANNOT be formed using the letters of the given word.**

- (1) GRUNT
- (2) RATE
- (3) HATE
- (4) GATE

**Ans: 1**

**Explanation:** In the given word letter 'N' is not present, So the word 'GRUNT' can not be formed.

**57. The ratio of two positive numbers is 3:7 and their LCM is 231. The smaller number is:**

- (1) 33
- (2) 55
- (3) 44



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(4)77

Ans: 1

Explanation: Smaller number =  $\frac{LCM}{Largest\ ratio} = \frac{231}{7} = 33$

58. What is to be added to 12% of 2400, so that the sum will be equal to 18% of 5400?

(1) 952

(2) 972

(3) 684

(4) 288

Ans: 3

Explanation: Let number to be added = x

12% of 2400 + x = 18% of 5400

$\Rightarrow x = 54 \times 18 - 24 \times 12$

$= 972 - 288 = 684$

59. If  $\frac{x}{2} + \frac{2}{y} = 1$  and  $\frac{y}{2} + \frac{2}{z} = 1$ .

Then the value of  $\frac{z}{2} + \frac{2}{x}$  is

1)-1

2)0

3)2

4)1

ANS: 4

Explanation:  $\frac{x}{2} + \frac{2}{y} = 1$

$$\frac{x}{2} = 1 - \frac{2}{y} = \frac{y-2}{y}$$



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$$\frac{y}{2} + \frac{2}{z} = 1$$

$$\Rightarrow \frac{2}{z} = 1 - \frac{y}{2} = \frac{2-y}{2}$$

$$\frac{z}{2} + \frac{2}{x} = \frac{2}{2-y} + \frac{y}{y-2}$$

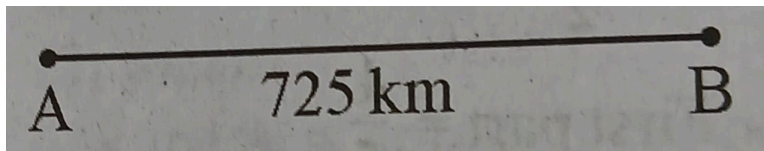
$$= \frac{y-2}{y-2} = 1$$

60. A train leaves station A towards station B at the speed of 50 km/hr. After half an hour, another train leaves station B towards station A at 150 km/hr. The distance between the stations is 725 km. The distance of the point from station A where the two trains are to meet is:

- (1) 250 km
- (2) 150 km
- (3) 168 km
- (4) 200 km

Ans: 4

Explanation:



Relative speed = 50 + 150 = 200 km/h

Distance covered by train start from A in  $\frac{1}{2}$  hour

$$= \frac{1}{2} \times 50 = 25 \text{ km}$$

Remaining distance = 725 - 25 = 700 km

Meeting time =  $\frac{700}{200} = \frac{7}{2}$  hours

Distance covered by train start from A in  $\frac{7}{2}$  hours

$$= \frac{7}{2} \times 50 = 175 \text{ km}$$



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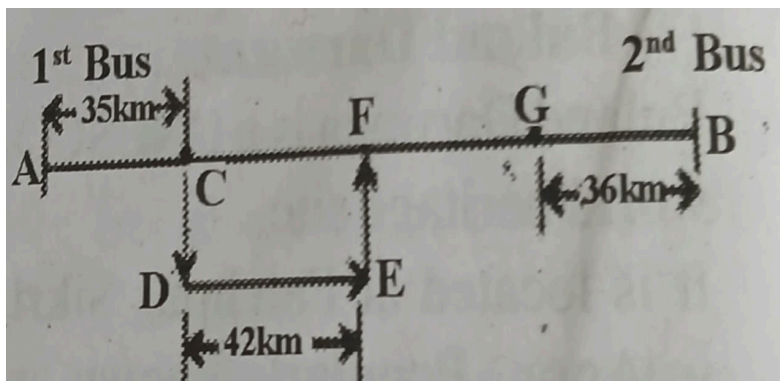
Required distance =  $25 + 175 = 200$  km

61. Two buses start from opposite points towards each other on a main road, 185 km apart. The first bus runs for 35 km and takes a right turn and runs for 17 km. It then turns left and runs for another 42 km and takes the direction back to reach the main road. In the meantime, due to a minor breakdown, the other bus has run only 36 km along the main road. What would the distance between the two buses be at this point?

- (1) 72 km
- (3) 80 km
- (2) 75 km
- (4) 85 km

Ans: 1

Explanation:



$$AF = 35 + 42 = 77 \text{ km}$$

$$\begin{aligned} \text{The distance between two buses} &= AB - (AF + BG) \\ &= 185 - (77 + 36) = 72 \text{ km} \end{aligned}$$

62. In which city was the Khelo India Youth Games, 2020 held?

- (1) Guwahati
- (2) Kolkata
- (3) Chennai



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**(4) Bangalore**

**Ans: 1**

**Explanation:**

- **The third edition of the Khelo India Youth Games was held at Guwahati. The event witnessed 20 national level multi-disciplinary grassroots games.**
- **Maharashtra topped in the final medal tally of the 3rd edition of the Khelo India Youth Games.**
- **The first edition of the Khelo India Youth Games in 2018 was held in Delhi.**
- **The fifth edition of the Khelo India Youth Games was held in Madhya Pradesh.**
- **The sixth edition of Khelo India Youth Games 2023 held in 2024 in four cities of Tamil Nadu, namely, Chennai, Trichy, Madurai and Coimbatore.**

**63. In the following question, select the related words from the given alternatives.**

**Writer: Pen :: Tailor:?**

- (1) Needle**
- (2) Scalpel**
- (3) Axe**
- (4) Saw**

**Ans: 1**

**Explanation: As writers use pen for writing similarly tailor uses 'Needle' for making cloth.**

**64. The ratio of ladies to gents members in a club is 3: 2. Recently, 300 ladies joined the club and the ratio became 5: 2. The number of lady members now in the club is:**

- (1) 900**
- (2) 1200**



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(3) 750

(4) 600

Ans: 3

Explanation: Let no. of females =  $3k$

No. of males =  $2k$

$$\text{Then, } \frac{3K + 300}{2k} = \frac{5}{2},$$

$$\Rightarrow 5k = 3k + 300$$

$$\Rightarrow 5k - 3k = 300$$

$$\Rightarrow k = \frac{300}{2} = 150$$

$$\text{No. of women in club} = 3k + 300 = 3 \times 150 + 300 = 750$$

65. In which year was the Second battle of Panipat fought between Akbar and Hemu?

(1) 1576

(2) 1526

(3) 1556

(4) 1536

Ans: 3

Explanation:

- The Second Battle of Panipat was fought between the forces of Hemu, and the army of Akbar.
- It was fought on 5th November 1556.
- It was a decisive victory for Akbar's generals Khan Zaman I and Bairam Khan.
- First battle of Panipat took place in 1526. It was fought between the Mughal ruler Babur and the Lodi dynasty.



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- The Third Battle of Panipat took place in 1761. It was fought between the Maratha Empire and the invading Afghan army under Ahmad Shah Durrani.

66. In which state is the Kudankulam Nuclear Power Station located?

- (1) Tamil Nadu
- (2) Gujarat
- (3) Rajasthan
- (4) Karnataka

Ans: 1

Explanation:

- Kudankulam Nuclear Power Project (KKNPP) is located in the Tirunelveli district of Tamil Nadu.
- It was built in collaboration with Atomstroyexport, the Russian state company, and Nuclear Power Corporation of India Limited (NPCIL).
- It has a capacity of 6,000 MW of electricity.

67. If  $\frac{1}{\sin^2 65^\circ + \cos^2 65^\circ} + \frac{\sin 15^\circ}{\cos 75^\circ} + \frac{\cos 65^\circ}{\sin 25^\circ} = \sqrt{3} \tan \theta$ , then the value  $\theta$  is:

- 1)  $60^\circ$
- 2)  $45^\circ$
- 3)  $30^\circ$
- 4)  $90^\circ$

Ans: 1

Explanation: given expression

$$\Rightarrow \frac{1}{1} + \frac{\sin 15^\circ}{\cos(90^\circ - 15^\circ)} + \frac{\cos 65^\circ}{\sin(90^\circ - 65^\circ)} = \sqrt{3} \tan \theta$$

$$\Rightarrow 1 + \frac{\sin 15^\circ}{\sin 15^\circ} + \frac{\cos 65^\circ}{\cos 65^\circ} = \sqrt{3} \tan \theta$$

$$\Rightarrow 1 + 1 + 1 = \sqrt{3} \tan \theta$$

$$\Rightarrow \tan \theta = \frac{3}{\sqrt{3}} = \sqrt{3}$$



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$$\Rightarrow \tan \theta = \tan 60^\circ$$

$$\Rightarrow \theta = 60^\circ$$

**68. Who among the following was the youngest President of India?**

**(1) Shri Neelam Sanjiva Raddy**

**(2) Dr. S. Radhakrishnan**

**(3) Dr. Zakir Hussain**

**(4) Dr. Rajendra Prasad**

**Ans: 1**

**Explanation:**

- Neelam Sanjiva Reddy was the sixth president of India.
- He served as the President of India from 1977 to 1982.
- He was the youngest President of India. He is the only Indian president to get elected unopposed and first person to become the president of India after becoming the chief minister of a state.
- Dr Rajendra Prasad is the first President of India.

**69. The sum of two numbers is 60 and their HCF and LCM are 12 and 72 respectively. The sum of the reciprocal of the two numbers is:**

1)  $\frac{5}{12}$

2)  $\frac{1}{5}$

3)  $\frac{5}{72}$

4)  $\frac{5}{6}$

**Ans: 3**

**Explanation:** Let the numbers be x and y

$$X+y = 60$$

$$Xy = 12 \times 72$$

$$\text{Sum of reciprocals} = \frac{1}{x} + \frac{1}{y}$$

$$= \frac{y+x}{xy} = \frac{60}{12 \times 72} = \frac{5}{72}$$



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70. Which of the following two countries of South America are landlocked?

- (1) Paraguay and Bolivia
- (2) Brazil and Venezuela
- (3) Guyana and Suriname
- (4) Chile and Ecuador

Ans: 1

**Explanation:** A landlocked country is a country that has no access to marine water bodies and is entirely bordered by land.

Paraguay and Bolivia have a navy despite not having a sea border.

71. The value of  $5 \frac{2}{3} + 0.73 - 3.123$  is equal to:

- 1) 3.27
- 2) 2.55
- 3) 3.12
- 4) 5.73

Ans: 1

**Explanation:**  $5 \frac{2}{3} + 0.73 - 3.123$   
 $= 5.66 + 0.73 - 3.123$   
 $= 6.39 - 3.123 = 3.267 = 3.27$

72. Select the combination of letters that when sequentially placed in the blanks will create a repetitive pattern.

c \_ bba \_ cab \_ ac \_ ab \_ ac

- (1) b; a; b; c; c
- (2) b; c; a; c; b
- (3) a; b; c; b; c
- (4) a; c; b; c; b

Ans: 4



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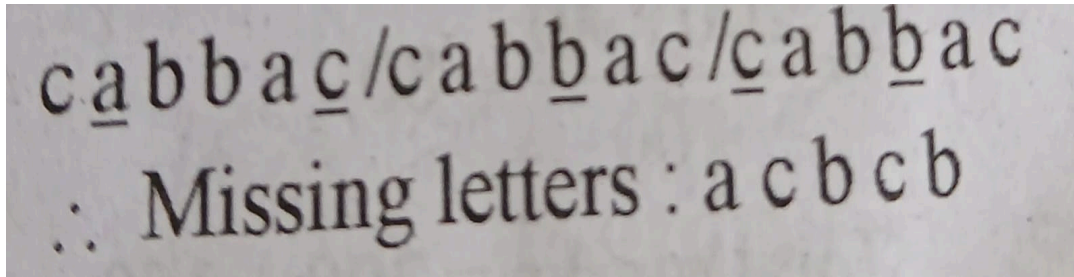


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**Explanation:**



**73. The unit digit in  $4 \times 38 \times 764 \times 1256$  is:**

- 1) 5
- 2) 6
- 3) 8
- 4) 4

**Ans: 3**

**Explanation: Unit digit ( $4 \times 38 \times 764 \times 1256$ )**

$$= 4 \times 8 \times 4 \times 6 = 32 \times 24$$

$$\text{Required unit digit} = 2 \times 4 = 8$$

**74. Where is the Central Potato Research Institute of India located?**

- (1) Delhi
- 2) Lucknow
- (3) Ranchi
- (4) Shimla

**Ans: 4**

**Explanation:**

- Indian Council of Agricultural Research (ICAR) is situated in Shimla
- It was established in 1949 to harness the potential of this promising crop for food security
- Central Potato Research Institute (CPRI) was established during August 1949 at Patna (Bihar, India)
- The institute was later on, shifted to Shimla, Himachal Pradesh in 1956 in order to facilitate hybridization work in potato breeding and maintain seed potato health.



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- It was transferred to the ICAR in April 1966.

**75. Where is the Head Quarters of the International Court of Justice located?**

- (1) Paris
- (2) New York
- (3) The Hague
- (4) Washington D.C.

**Ans: 3**

**Explanation:** The seat of International Court of Justice is at the Peace Palace • in The Hague (Netherlands). It was established in June 1945 by the Charter of the United Nations and began work in April 1946. It is composed of 15 judges elected to nine-year terms of office by the United Nations General Assembly and the Security Council.

**76. In order to qualify in an examination, one has to secure 50% of the overall marks. In the examination consisting of two papers, a student secured 40% in the first paper of 200 marks. Minimum what percentage of marks should be secured in the second paper of 150 marks in order to qualify in the examination?**

- (1) 60%
- (2) 68%
- (3) 65%
- (4) 64%

**Ans: 4**

**Explanation:** Marks in first question paper =  $\frac{200 \times 40}{100} = 80$

**Total marks = 200 + 150 = 350**

**Pass marks =  $\frac{350 \times 50}{100} = 175$**



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Marks in second question paper =  $175 - 80 = 95$

$$\% = \frac{95}{150} \times 100$$

$$= \frac{95 \times 2}{3} = 63.33\% \approx 64\%$$

77. The value of  $\frac{\sqrt{54} \times \sqrt{125}}{\sqrt{24} \times \sqrt{45}}$  is:

a)  $4\sqrt{6}$

b) 4

c)  $2\sqrt{5}$

d) 2.5

Ans: d

Explanation:  $\frac{\sqrt{54} \times \sqrt{125}}{\sqrt{24} \times \sqrt{45}}$

$$= \frac{\sqrt{9 \times 6} \times \sqrt{5 \times 25}}{\sqrt{6 \times 4} \times \sqrt{9 \times 5}}$$

$$= \frac{3\sqrt{6} \times 5\sqrt{5}}{2\sqrt{6} \times 3\sqrt{5}} = \frac{5}{2} = 2.5$$

78. Who said, "Freedom is my birth right and I shall have it"?

(1) Bhagat Singh

(2) Chandra Sekhar Azad

(3) Bal Gangadhar Tilak

(4) Gopal Krishna Gokhale

Ans: 3

Explanation:



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- 'Give me blood and I will give you freedom'- Subhash Chandra Bose
- 'Cast off your laziness'-Jawaharlal Nehru
- 'Inquilab Zindabad' - Bhagat Singh

79. X and Y together can complete a piece of work in 12 days, Y and Z can do it 18 days and X and Z can complete the same work in 15 days. If X, Y and Z can together complete the work, approximately how many days will be required to complete the work?

- (1) 18  
(2) 10  
(3) 14  
(4) 12

Ans: 2

**Explanation:** Total work = LCM (12, 18, 15) = 180

**Efficiency:**

$$X = \frac{180}{12} = 15, y = \frac{180}{18} = 10$$

$$Z = \frac{180}{15} = 12$$

**Time taken by (x + y + z ) to complete the work**

$$= \frac{180 \times 2}{(15 + 10 + 12)}$$

$$= \frac{360}{37} = 9.72 \approx 10$$

80. Select the letter cluster that can replace the question mark(?) in the following series. BZA, DYC, FXE, HWG ?

(1) JVI

(2) KVI



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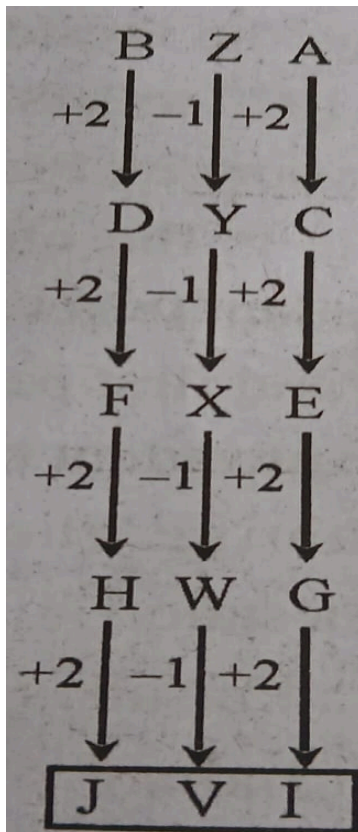
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(3) JUH

(4) JVH

Ans: 1

Explanation:



81. Which Indian state has the longest mainland coastline?

- (1) Maharashtra
- (2) Kerala
- (3) Gujarat
- (4) Odisha

Ans: 3

Explanation: The total length of India's coastline is 7516.6 kilometers. Of this, mainland coastline length is 5422.6 kilometers. Gujarat has the longest mainland coastline. It is 1214.7 kilometers long which is approximately 23% of the country's total mainland coastline. In total there are 41 ports



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located along the Gujarat coast-line, one major port (Kandla), 11 intermediate ports, and 29 minor ports.

82.The simple interest on a sum of amount for 2 years at 10% per Mannum is Rs. 500. The compound interest on the same sum at the same rate for the same time is:

- (1) Rs. 515
- (2) Rs. 525
- (3) Rs. 510
- (4) Rs. 520

Ans: 2

Explanation:  $CI = SI \left(1 + \frac{R}{200}\right)$

$$= 500 \left(1 + \frac{10}{200}\right)$$

$$= 500 \times \frac{21}{20} = \text{Rs.}525$$

83.Where is Sabarimala temple located?

- 1) Maharashtra
- 2) Odisha
- 3) Kerala
- 4) Andhra Pradesh

Ans: 3

Explanation:

- Sabarimala Temple is dedicated to Lord Ayyappa.
- It is the most famous and prominent among all the Sastha temples in Kerala.
- It is in Kerala's Pathanamthitta district.

84.Mukesh was facing the south. He walked 5 km straight and from there he turned at a 90° angle to his right and walked 5 km. Then he turned at a 45° angle to his left and walked 3 km. Where will he be from his actual position?



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(1) South-east direction

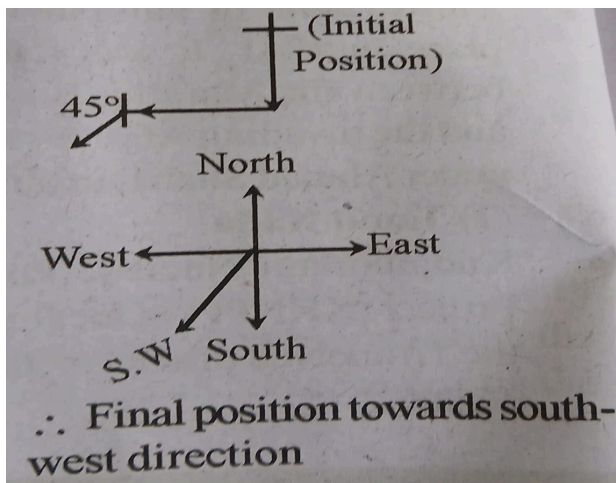
(2) South-west direction

(3) South direction

(4) North-west direction

Ans: 2

Explanation:



85. Select the option that is related to the third number in the same way as the second number is related to the first number.

21:11 :: 31:?

(1) 17

(2) 16

(3) 15

(4) 18

Ans: 2

Explanation: 21:11 :: 31:?

$$\frac{21+1}{2} = 11$$

$$\frac{31+1}{2} = 16$$



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86. Select the number from among the given options that can replace the question mark(?) in the following table

28	63	94
8	18	?
6	9	13

1) 69

(2) 75

(3) 76

(4) 48

Ans: 2

Explanation:

28	63	94
8	18	?
6	9	13

As,  $6^2 - 8 = 28$

$9^2 - 18 = 63$

Similarly,  $13^2 - ? = 94$

$? = 169 - 94 = 75$

87. P is the brother of Q and R. Sis R's mother. T is P's father. Which of the following statements CANNOT be definitely true?



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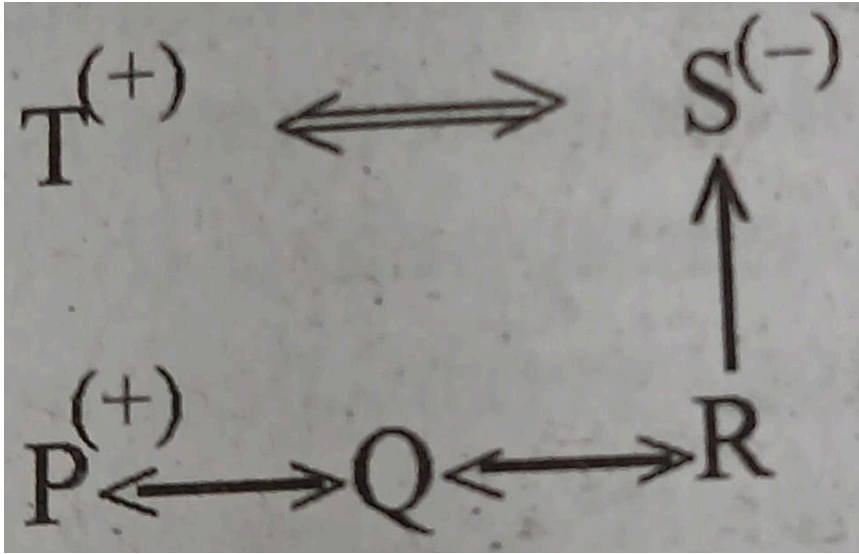


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- (1) S is P's mother
- (2) T is Q's husband
- (3) T is Q's father
- (4) T is S's husband

Ans: 2

Explanation:



From above : 'S' is p's mother

'T' is Q's father

'T' is S's husband

88. From among the given options, select the word which CANNOT be formed using the letters of the given word. DAUGHTER

- (1) GET
- (2) TOUGH
- (3) DATE
- (4) HURT

Ans: 2



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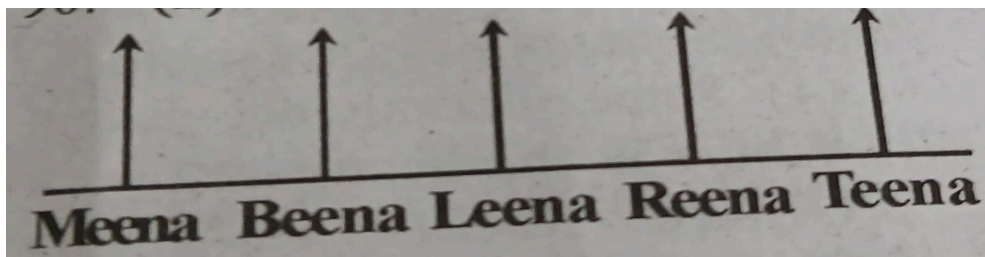
**Explanation:** In the given word letter "O" is not present. So, TOUGH word cannot be formed.

**89.** Five girls Beena, Leena, Meena, Reena and Teena are playing game. They are sitting in a row facing towards the north. Meena is sitting at the west end and Teena is sitting at the east end. Leena and Reena are sitting together next to each other. Beena is sitting to the left of Leena and to the right of Meena. Who is sitting second from the east end?

- (1) Beena
- (2) Reena
- (3) Leena
- (4) Teena

**Ans:** 2

**Explanation:**



From the above sitting arrangement  
Second from the east end = Reena

**90.** Five students are sitting in a row, Sunil is neither a neighbour of Aastha nor Shyam, Aastha is a neighbour of Shyam and she is on the left end of the row. Sunil is a neighbour of Manjeet, Manjeet is exactly in the middle of the row, and is not a neighbour of Amita. Who are the neighbours of Sunil?

- (1) Astha and Manjeet
- (2) Shyam and Amita
- (3) Shyam and Manjeet



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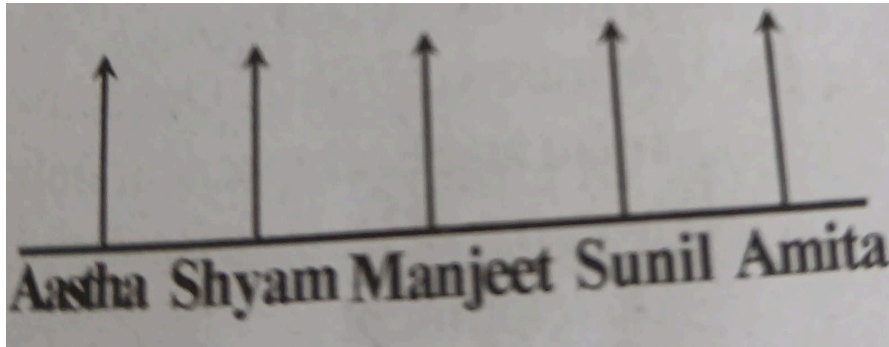


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(4) Manjeet and Amita

Ans: 4

Explanation: According to Question



From above sitting arrangement: Neighbours of Sunil are Manjeet and Amita.

91. Select the number from among the given options that can replace the question mark (?) in the following series.

69, 55, 26, 13, ?

(1) 5

(2) 2

(3) 4

(4) 3

Ans: 3

Explanation: 69, 55, 26, 13, ?

As,

$$(6 \times 9) + 1 = 55$$

$$(5 \times 5) + 1 = 26$$

$$(2 \times 6) + 1 = 13$$

Similarly,

$$(1 \times 3) + 1 = 4$$



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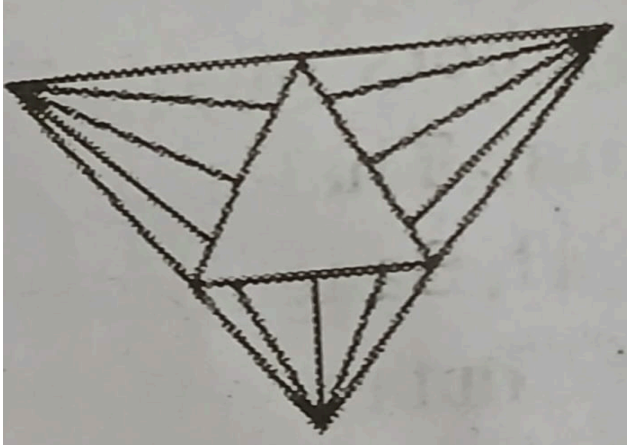
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92. Find the number of triangles in the diagram given below:



(1) 32

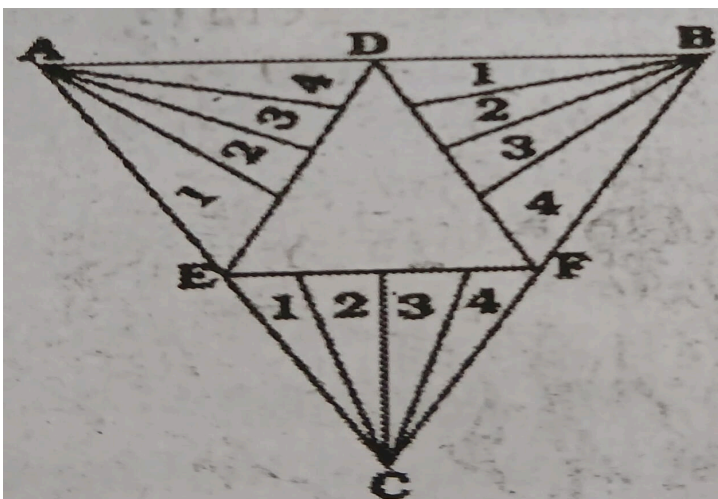
(2) 30

(3) 29

(4) 31

Ans: 1

Explanation: No. of triangles



$$= 3 \times (1 + 2 + 3 + 4) + ABC + DEF = 30 + 2 = 32$$



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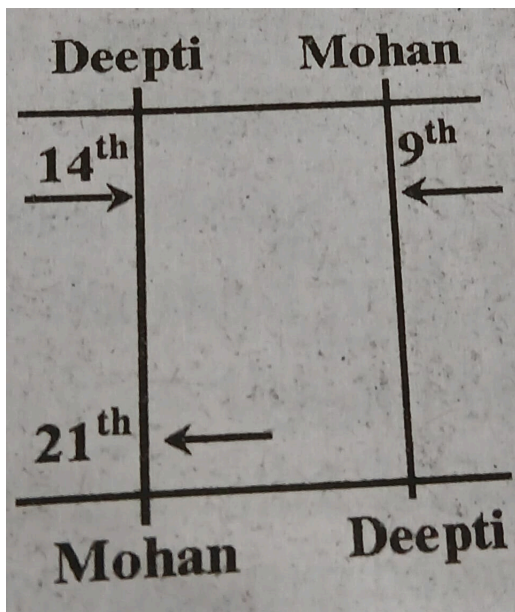
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93. The positions of Deepti and Mohan in a row are 14th from the left and 9th from the right respectively. If they interchange their places, then Mohan will be 21st from the right, find the position of Deepti from the left now and the total number of persons in the row.

- 1) 26, 34
- 2) 24, 38
- 3) 33, 27
- 4) 34, 26

Ans: 1

Explanation: Total number of persons  
 $= (14 + 21) - 1 = 34$



Deepti's new position from left  $34 - 8 = 26$

94. Read the given statements and commonly known facts, decide which appears to be at variance with that the information given in the statements is true, even if it. Conclusions carefully. Assuming which of the given Conclusions logically follow(s) from the statements.

Statements:

All Roses are Red.



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Some Red are Colours.  
All Colours are Paints.

Conclusions:

I. Some Red are Paints.

II. All Red are Roses.

(1) Only Conclusion II follows.

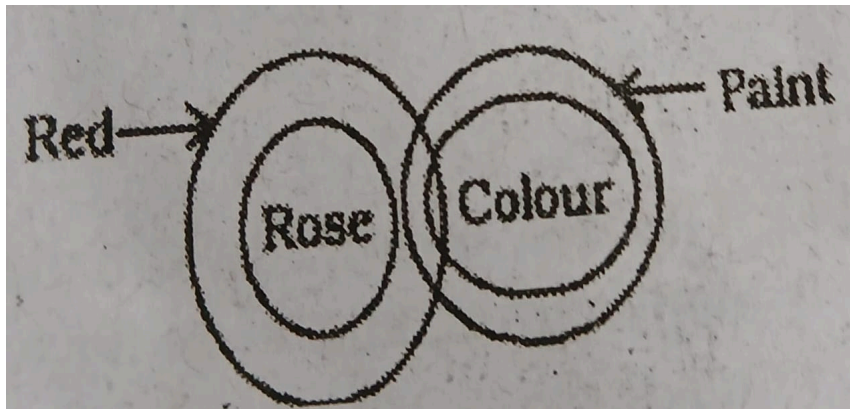
(2) Only Conclusion I and II follows.

(3) Only Conclusion I follows

(4) Neither Conclusion I nor II follows.

Ans: 3

Explanation:



Conclusions:

I. Some Red are Paints.(✓)

II. All Red are Roses.(✗)

95. Select the number that can replace the question mark (?) in the following series.

5, 10, 17, 26, ?

(1) 35

(2) 36



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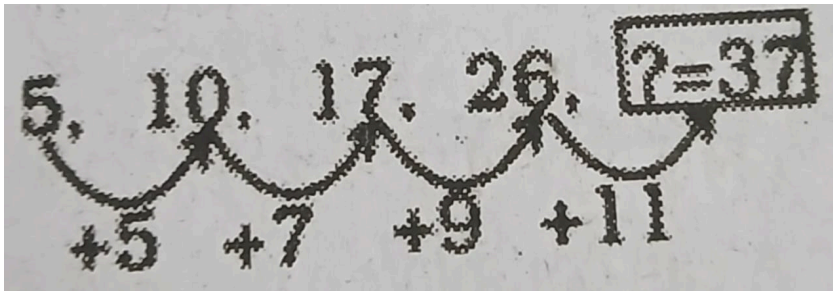


(3) 37

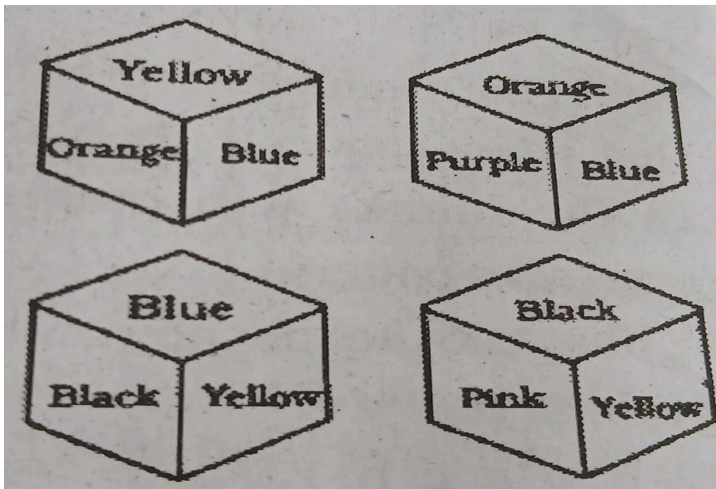
(4) 34

Ans: 3

Explanation:



96. Four different positions of a cube are shown in the figure. Which of the following colours is on the face opposite to the face that has black written on it?



(1) Purple

(2) Orange

(3) Blue

(4) Pink

Ans: 2

Explanation: From Given cube:



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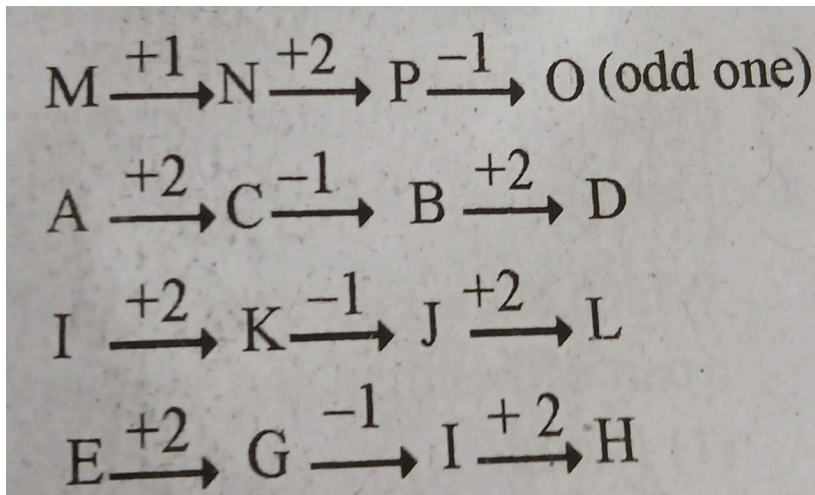
(2) ACBD

(3) IKJL

(4) EGFH

Ans: 1

Explanation:



99. Four word-pairs have been given, out of which three are alike in some manner and one is different. Select the odd one

(1) Paper : note

(2) Head: cap

(3) Hand: glove

(4) Gift: gift wrap

Ans: 1

Explanation: The word pair Paper : note is different from other three word pairs because all three have the same relation between them.

100. \_\_\_\_\_ are known as elec-tronegative elements because they form negatively charged ions by the gain of electrons.



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- (1) Non-metals
- (2) Alloys
- (3) Compounds
- (4) Mixtures

**Ans: 1**

**Explanation:**

- **Non-metals are called electronegative elements; atoms form negative ions by accepting electrons in order to have the electronic configura-tion of the nearest noble gas elements.**

**Eg: Phosphorus, Sulphur**

- **Metals are electropositive elements because they can form positive ions by losing electrons.**

**Eg: Lithium, Sodium, Magnesium, Aluminium, Pottassium, Iron, Copper, Zinc.**



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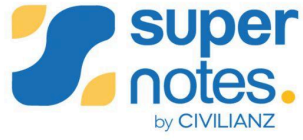
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