

**1. Which session of the congress led to the divide between extremists and moderates in 1907?**

- (1) Surat**
- (2) Madras**
- (3) Calcutta**
- (4) Bombay**

**ANS: 1**

**EXPLANATION:**

- **The ideological difference between moderates & extremists was responsible for the Surat Split.**
- **The expulsion of extremists from congress in December 1907 at the Surat session is known as "Surat Split".**
- **The two main objectives placed by the extremists at Surat Session of 1907 were that:**

**1. Demand for the resolution of Swaraj.**

**2. Lala Lajpat Rai to be made the President of the INC.**

- **The Moderates and the Extremists reunited at the Lucknow session in 1916**

**2. Identify the name of the traditional folk theatre form of Maharashtra.**

- (1) Tamasha**
- (2) Rasleela**
- (3) Nautanki**
- (4) Swang**

**ANS: 1**

**EXPLANATION:**



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- ❖ **Tamasha:** It is a traditional form of Marathi theatre, often with singing and dancing, widely performed by local or travelling theatre groups within the state of Maharashtra.
- ❖ **Rasleela:** It is a folk dance drama of northern India, mainly Uttar Pradesh, based on scenes from the life of Krishna
- ❖ **Nautanki:** It is a folk dance of Uttar Pradesh
- ❖ **Swang:** It is a popular folk dance-theatre form Performed generally in Rajasthan, Haryana, Uttar Pradesh and Malwa region of Madhya Pradesh

**3.Which Indian state has the highest power generation capacity from thermal energy?**

**(1) Andhra Pradesh**

**(2) Uttar Pradesh.**

**(3) Maharashtra**

**(4) Gujarat**

**ANS: 3**

**EXPLANATION:**

- **Maharashtra is the state with the highest thermal power capacity in India.**
- **Maharashtra's largest thermal power plant is the Chandrapur Super thermal power station**
- **Other major thermal power plants in Maharashtra : Tiroda Power Plant, Nashik Thermal Power Station, Paras Thermal Power Station, Bhusawal Thermal Power Plant, Koradi Super Thermal Power Plant**
- **The Vindhyachal Thermal Power Station in Madhya Pradesh is India's largest thermal power plant**

**4.Six persons - Seema, Vaibhav, Ajay, Manisha, Tulika and Ananya were born in six different states, namely Assam, Gujarat, Madhya Pradesh,**



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Punjab, Bihar and Rajasthan, but not necessarily in the same order. They all play six different games, namely Chess, Football, Hockey, Ludo, Badminton and Cricket, but not necessarily in the same order. Ananya was born in Gujarat and she plays Cricket. Ajay does not play Chess or Ludo. The person who was born in Bihar plays Football. Seema plays Hockey and she was not born in Assam or Madhya Pradesh. Manisha was born in Rajasthan and she plays badminton. Identify the state in which Ajay was born?

- (1) Madhya Pradesh
- (2) Punjab
- (3) Bihar
- (4) Assam

ANS: 3

EXPLANATION:

Person	Assam	Gujarat	Madhya pradesh	Punjab	Bihar	Rajasthan	chess	football	hockey	Ludo	badminton	cricket
Seema	x		x						✓			
Vaibhav												
Ajay							x	✓		x		
Manisha						✓					✓	
Tulika												
Ananva		✓										✓

Since Ajay play football , he was born in Bihar.

5.As of Nov 2020, who is the President of the World Bank?

- (1) Kristalina Georgieva
- (2) Shanta Devrajan
- (3) Jim Yong Kim
- (4) David R. Malpass

ANS: 4

EXPLANATION:



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- The World Bank was created at the 1944 Bretton Woods Conference, along with the International Monetary Fund (IMF).
- The president of the World Bank is traditionally an American.
- Ajay Banga was selected 14th President of the World Bank and began his five-year term as World Bank Group President on June 2, 2023
- David R. Malpass was the 13th President of the World Bank.
- Malpass served as president of World Bank from 2019 April 9 to 2023 June 1

6. Which of the following medicinal plant can be used to treat blood pressure?

- (1) Jamun
- (2) Sarpagandha
- (3) Tulsi
- (4) Babool

ANS: 2

EXPLANATION:

- Sarpagandha is taken from the root of a plant named Rauvolfia Serpentina or Indian snakeroot, and is a vital drug in Ayurveda used for high blood pressure, asthma, and insomnia.
- It is a critically endangered species belonging to the family Apocynaceae.

7. Who said the following when laying the foundation stone ceremony of Banaras Hindu University. "There is no salvation for India unless you strip yourself of this jewelry and hold it in trust for your country men in India."

- (1) Mohammad Ali Jinnah
- (2) Mahatma Gandhi
- (3) Gopal Krishna Gokhale
- (4) Annie Besant

ANS: 2



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**EXPLANATION:**

- Pandit Malaviya had invited Gandhiji to speak on the occasion of the opening of the Banaras Hindu University.
- Lord Hardinge-II (1910-1915), the Viceroy, had come specially to lay the foundation stone of the University.
- Here Gandhiji said these lines "There is no salvation for India unless you strip yourself of this jewellery and hold it in trust for your country men in India."
- Banaras Hindu University is situated in Varanasi
- It was founded by Madan Mohan Malavya in 1916

8. The price of sugar increased by 10%. A family of 5 members did not want to increase their expenditure. What is the percentage reduction in their consumption of sugar?

(1) 8

(2)  $9\frac{1}{11}$

(3) 10

(4) 12

ANS: 2

**EXPLANATION:**

**Percentage of reduction in their consumption**

$$= \frac{10}{100+10} \times 100$$

$$= \frac{10}{110} \times 100 = 9\frac{1}{11}\%$$



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**Solve the following**

9.  $\sqrt[3]{\sqrt{0.000064}} = ?$

- (1) 2.0
- (2) 0.02
- (3) 0.002
- (4) 0.2

ANS: 4

EXPLANATION:

$$\begin{aligned} & \sqrt[3]{\sqrt{0.000064}} \\ &= (0.008)^{\frac{1}{3}} \\ &= \sqrt[3]{0.008} \\ &= \left[ (0.2)^3 \right]^{\frac{1}{3}} \\ &= (0.2)^{3 \times \frac{1}{3}} = 0.2 \end{aligned}$$

10. Jon Beel Mela is the only fair in India where the Barter system is still used. In which state does it take place?

- (1) Nagaland
- (2) Tripura



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(3) Assam

(4) Manipur

ANS: 3

EXPLANATION:

- The Jon Beel Mela usually takes place a few days after Magh Bihu, the harvest festival.
- The Jon Beel lake that lends its name to the fair (jon is moon and beel is lake) also witnesses community-fishing during the fair.
- The Tiwa community organizes the Jon Beel Mela.
- The Jon Beel Mela is organized under the patronage of the Gobha kingdom.

11. Seven chocolates, A, B,C,D,E F and G. are bought at different costs between Rs. 40 and Rs. 50 (excluding both Rs. 40 and Rs 50) but not necessarily in the same order. The cost of chocolate C is Rs. 5 less than that of chocolate E. The cost of Chocolate A is a prime number. The cost of chocolate F is Rs. 2 more than that of chocolate A. The cost of chocolate F is more than that of chocolate E. The cost of chocolate D is an odd number. The cost of chocolate G is Rs. 3 more than the cost of chocolate D. None of the chocolates cost Rs. 44. The cost of chocolate B is an even number. What is the cost of chocolate E?

(1) Rs. 47

(2) Rs. 45

(3) Rs. 46

(4) Rs. 42

ANS: 3



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**EXPLANATION:**

**Cost of Seven Chocolate: 41, 42, 43, 45, 46, 47, 48, 49**

**Cost of Chocolate 'C' is Rs. 5 less than Chocolate 'E'**

**Cost of Chocolate 'C' may be: 41,42,43**

**Cost of chocolate 'E' may be: 46,47,48**

**Cost of Chocolate 'A' is a Prime number**

**Cost of Chocolate 'A' may be: 41,43,47**

**Cost of Chocolate F, is Rs. 2 more than A**

**Cost of F may be 43, 45, 49**

**Cost of F > Cost of E**

**Cost of F = Rs. 49**

**Cost of 'D' is an odd number = 41, 43, 45**

**Cost of G is Rs. 3 more than D Cost of G may be: 46, 48**

**From above conclusion cost of chocolate 'E' may be Rs. 46**

**12. Three friends arranged a party. Tanveer paid  $\frac{2}{3}$  as much as Yusuf paid  $\frac{1}{2}$  as much as Sachin paid. The fraction of the total expenditure by Yusuf was:**

A)  $\frac{2}{11}$

B)  $\frac{3}{11}$

C)  $\frac{7}{11}$

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

**ANS: B**



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**EXPLANATION:**

Let sachin paid Rs. 100

$$\text{Yusuf paid} = 100 \times \frac{1}{2} = \text{Rs. } 50$$

$$\text{Tanveer Paid} = 50 \times \frac{2}{3} = \frac{100}{3}$$

Required fraction,

$$= \frac{50}{100 + 50 + \frac{100}{3}}$$

$$= \frac{150}{550} = \frac{3}{11}$$

13. The speed of a boat in still water is 15 km/h. The speed of the current is 3 km/h. The difference between the time taken for upstream and downstream to complete two trips (i.e., from one end to the other coming back and repeating the same again) is 10 minutes. What is the distance between the two ends?

(1) 2 km

2) 3.5 km

(3) 2.5 km

4) 3 km

ANS: 4



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**EXPLANATION:**

Let the distance between the two ends =  $x$  km.

$$\Rightarrow 2 \left( \frac{x}{15-3} - \frac{x}{15+3} \right) = \frac{10}{60}$$

$$\Rightarrow \frac{x}{12} - \frac{x}{18} = \frac{1}{6 \times 2}$$

$$\Rightarrow 6x = 18$$

$$\Rightarrow x = \frac{18}{6} = 3 \text{ km}$$

**14.Simplify**

$$1.8 + 2 \times \frac{3}{2} \times \frac{1}{2} \left( \frac{2}{5} \div \left( \frac{3}{5} \times \frac{2}{3} \right) \times \frac{3}{2} - 1 \right)$$

1)0.2

2)-1

3)1

4)2.55

ANS: 4

**EXPLANATION:**

$$1.8 + 2 \times \frac{3}{2} \times \frac{1}{2} \left( \frac{2}{5} \div \left( \frac{3}{5} \times \frac{2}{3} \right) \times \frac{3}{2} - 1 \right)$$

$$= 1.8 + \frac{3}{2} \left( \frac{2}{5} \div \frac{2}{5} \times \frac{3}{2} - 1 \right)$$

$$= 1.8 + \frac{3}{2} \left( \frac{3}{2} - 1 \right)$$

$$= 1.8 + \frac{3}{2} \times \frac{1}{2} = 1.8 + 0.75 = 2.55$$

**15.The first passenger train in India was operated between\_\_\_\_\_**

**(1) Roorkee and Piran Kaliyar**



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(2) Howrah and Hoogly

(3) Royapuram and Wallajah Road

(4) Bombay and Thane

ANS: 4

EXPLANATION:

- The history of Indian Railways dates back to over 160 years ago.
- On 16th April, 1853, the first passenger train ran between Bori Bunder (Bombay) and Thane, a distance of 34 km.
- It was operated by three locomotives, named Sahib, Sultan and Sindh, and had thirteen carriages.

16.As of Nov. 2020, who is the Chief Justice of India?

(1) S. Arvind Bobde

(2) J. Chelameswar

(3) Kurian Joseph

(4) Deepak Mishra

ANS: 1

EXPLANATION:

- The Chief Justice of India and the Judges of the Supreme Court (SC) are appointed by the President under clause (2) of Article 124 of the Constitution.
- Justice Sanjiv Khanna is the 51st Chief Justice of the Supreme Court of India
- He was sworn in as Chief Justice on 11 November 2024.
- 50th chief justice of india-Dhananjaya Chandrachud Yeshwant
  - ❖ 49th-U U Lalit
  - ❖ 48th-N V Ramana
  - ❖ 47th-Sharad Arvind Bobde

17.INTERPOL has its headquarters in\_\_\_\_\_

(1) Spain

(2) France

(3) Switzerland



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**(4) Germany**

**ANS: 2**

**EXPLANATION:**

- **The INTERPOL headquarters is in Lyon, France.**
- **INTERPOL was founded in 1923**
- **INTERPOL stands for International Criminal Police Organization**
- **INTERPOL has 196 member countries, and the world's largest police organization.**

**18. In an effort to provide a safe and secure e-payment option RBI has launched**

**(1) Vision 2022**

**(2) Vision 2021**

**(3) Vision 2020**

**(4) Vision 2019**

**ANS: 2**

**EXPLANATION:**

- **The Reserve Bank of India (RBI) has released a Vision 2021 document to ensure a more convenient, affordable, quick, safer and secure e-payment system.**
- **The RBI's vision document is titled 'Payment And Settlement Systems In India: Vision 2019-2021'**
- **It envisages achieving "a highly digital and cash-lite society".**
- **To achieve its objective the goal posts of RBI involves 4Cs, namely convenience, confidence, competition and cost effectiveness.**

**19. Two poles of height 20 and 14 meters are joined at the top by a wire which makes an angle of  $30^\circ$  with the horizontal. The length of the wire is:**

**(1) 12 m**

**(2) 10 m**



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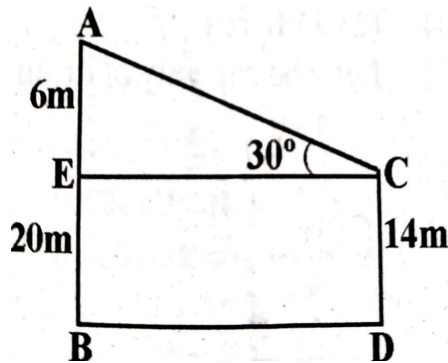
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(3) 16 m

(4) 14 m

ANS: 1

EXPLANATION:



In  $\triangle ACE$ ,

$$\sin 30^\circ = \frac{AE}{AC}$$

$$\Rightarrow \frac{1}{2} = \frac{6}{AC}$$

$$\Rightarrow AC = 2 \times 6 = 12$$

Length of the wire = 12 m

20. The difference between the two numbers is 5. If 25 is subtracted from the smaller number and 20 is added to the greater number, the ratio becomes 1:

2. What is the greater number?

(1) 90

(2) 85

(3) 80

(4) 75



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ANS: 3

EXPLANATION:

Let the greater number be  $x$

Smaller number =  $x - 5$

$$\frac{x - 5 - 25}{x + 20} = \frac{1}{2}$$

$$\Rightarrow \frac{x - 30}{x + 20} = \frac{1}{2}$$

$$2x - 60 = x + 20$$

$$\Rightarrow 2x - x = 20 + 60 \Rightarrow x = 80$$

21. A sum of money becomes Rs. 10648 after 3 years and Rs. 9680 after 2 years of compound interest computed yearly. What is the rate of interest?

(1) 12%

(2) 8%

(3) 9%

(4) 10%

ANS: 4

EXPLANATION:



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$$A_1 = 9680$$

$$A_2 = 10648$$

$$r = \left( \frac{A_2}{A_1} - 1 \right) \times 100$$

$$r = \left( \frac{10648}{9680} - 1 \right) \times 100$$

$$= (1.1 - 1) \times 100 = 10\%$$

22. The Virupaksha temple at Hampi is dedicated to \_\_\_\_\_

- (1) Lord Ganesha
- (2) Lord Shiva
- (3) Lord Brahma
- (4) Lord Vishnu

ANS: 2

EXPLANATION:

- Virupaksha Temple is located in Hampi in Karnataka.
- It is part of the Group of Monuments at Hampi, designated as a UNESCO World Heritage Site.
- The temple is dedicated to Lord Virupaksha, a form of Shiva.
- The temple was built by Lakkan Dandesha, a nayaka (chieftain) under the ruler Deva Raya II also known as Prauda Deva Raya of the Vijayanagara Empire.

23. Which one of the following is a nuclear research reactor operated by Bhabha Atomic Research Centre?

- (1) Dhruva
- (2) Shiva
- (3) Vishnu



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(4) Narayana

ANS: 1

EXPLANATION:

- The Dhruva reactor is India's largest nuclear research reactor. Located in the Mumbai suburb of Trombay at the Bhabha Atomic Research Centre (BARC), it is India's primary generator of weapons-grade plutonium-bearing spent fuel for its nuclear weapons program.
- Other research nuclear reactors in bhabha atomic research centre - APSARA, ZERLINA, CIRUS, PURNIMA I, PURNIMA II, PURNIMA III, AHWR-CF

24. 25% of a number is 7 more than 30% of another number. The difference between the numbers is 29. What are the numbers?

- (1) 40 and 11
- (2) 39 and 10
- (3) 34 and 5
- (4) 37 and 8

ANS: 3

EXPLANATION:



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Let the numbers be  $x$  and  $y$

$$x - y = 29 \dots (1)$$

$$\frac{25x}{100} - \frac{30y}{100} = 7$$

$$\Rightarrow 25x - 30y = 700 \dots (2)$$

From equation (1) and equation (2),

$$30x - 30y = 870 \dots (3)$$

$$25x - 30y = 700 \dots (2)$$

$$(3) - (2) \Rightarrow x = \frac{170}{5} = 34$$

$$y = 34 - 29 = 5$$

25. Which two signs need to be interchanged to make the following equation correct?

$$3 + 3 \times 3 - 3 \div 3 = 3$$

(1)  $\times$  and  $\div$

(2)  $+$  and  $\div$

(3)  $-$  and  $+$

(4)  $+$  and  $\times$

ANS: 2

EXPLANATION:



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$$3 + 3 \times 3 - 3 \div 3 = 3$$

Interchange + and  $\div$

$$3 \div 3 \times 3 - 3 + 3$$

$$= 3 - 3 + 3 = 3$$

$$3 = 3$$

L.H.S = R.H.S

26. Name the mission ISRO has conceived to study the sun.

- (1) Exoworld
- (2) Exposat
- (3) Aditya L1
- (4) Suraj

ANS: 3

EXPLANATION:

- Aditya-L1 is the first space based observatory class Indian solar mission to study the Sun from a substantial distance of 1.5 million kilometers.
- The spacecraft is planned to be placed in a halo orbit around the Lagrangian point 1 (L1) of the Sun-Earth system
- Aditya-L1 is also ISRO's second astronomy observatory-class mission after AstroSat (2015).
- The launch was conducted using the PSLV-C57 rocket
- Aditya-L1 was launched on September 2, 2023
- Aditya-L1, reached the L1 point on January 6, 2024

27. Which country won the first ICC Men's T20 Cricket world cup title?

- (1) India
- (2) England
- (3) West Indies



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(4) Pakistan

ANS: 1

EXPLANATION:

- The ICC T20 World Cup is an International Twenty20 cricket tournament organised by the International Cricket Council (ICC).
- ECB Marketing Manager Stuart Robertson in England first proposed the idea of T20 Cricket.
- The first edition of the T20 cricket world Cup was held in South Africa in 2007.
- India won the first men's Twenty20 World Cup by defeating Pakistan

### ICC T20 WORLDCUP 2024

Winners	- India
Runners up	- South Africa
Player of the Series	- Jasprit Bumrah
Player of the match (Final)	- Virat Kohli
Venue	- USA & West Indies

28. Which one of the following contains CFC?

- (1) Aerated drinks
- (2) Wall Paints
- (3) Varnish
- (4) Refrigerants

ANS: 4

EXPLANATION:



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- Chlorofluorocarbons (CFC) are refrigerants that contain chlorine.
- They have been banned since the beginning of the 90's because of their negative environmental impacts.
- Examples of CFCs are R-11, R-12 and R-115.
- Chlorofluorocarbons (CFCs) and hydrochlorofluorocarbons (HCFCs) are fully or partly halogenated paraffin, hydrocarbons that contain only . carbon (C), hydrogen (H), chlorine (Cl), and fluorine (F), produced as volatile derivatives of methane, ethane, and propane.

**29. Which is the second highest constitutional office in India?**

(1) Vice President

(2) President

(3) Governor

(4) Prime Minister

ANS: 1

EXPLANATION:

- The Vice President of India is the second-highest constitutional office in India after the President.
- The Vice President of India is also ex officio Chairperson of the Rajya Sabha.
- Vice President shall hold office for a term of five years
- The oath of office to the Vice-President is administered by the President
- The qualification of person for the election of the Vice-President,
- He should be a citizen of India.
- He should have completed 35 years of age.
  
- He should be qualified for election as a member of the Rajya Sabha.



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- He should not hold any office of profit under the Union government or any State government or any local authority, or any other public authority.

30. Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.

ABF, BCG, CDH, DEI, EFJ, ?

(1) FGA

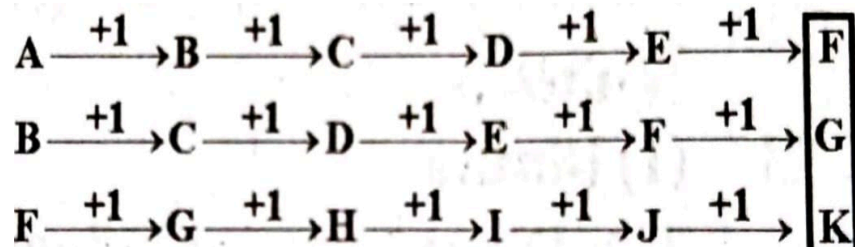
(2) FGC

(3) FGL

(4) FGK

ANS: 4

EXPLANATION:



31. Two angles of a triangle are in the ratio 1: 2 and the sum of these angles is equal to the third angle. What is the measure of the smallest angle?

(1) 30°

(2) 40°

(3) 25°

(4) 20°



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ANS: 1

EXPLANATION: Let two angles are  $x$  and  $2x$

$$x+2x+3x= 180^\circ$$

$$6x=180^\circ$$

$$x=30^\circ$$

Smallest angle =  $30^\circ$

32. In India, river dolphins are found in \_\_\_\_\_ river

(1) Ghaghara

(2) Godavari

(3) Luni

(4) Krishna

ANS: 1

EXPLANATION:

- Ganges river dolphins historically distributed in major river systems (Ganges-Brahmaputra-Meghna and Karnaphuli-Sangu) of India, Nepal and Bangladesh.
- According to the recent study in the Ganga River Basin, the species recorded from the main stream of Ganga River followed by the tributaries, Ghagra, Kosi, Gandak, Chambal, Rupnarayan, and Yamuna.
- In 2010, the Government of India notified the Ganges River dolphin as the National Aquatic Animal.

33. 'Natyashastra' the famous treatise on dramatic art was written by \_\_\_\_\_

(1) Harsha Vardhan



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(2) Vishnu Sharma

(3) Bharata Muni

(4) Kalidasa

ANS: 3

EXPLANATION:

The Natya Shastra is believed to have been written by the Brahman sage (muni) and priest Bharata during the period between 200 B.C. and 200 A.D.

- It consists of a set of precepts on the writing and performance of dance, music and theater and while it basically deals with stagecraft.
- It also influenced Indian music, dance, sculpture, painting. and literature as well.

34. A drum of water is  $\frac{3}{4}$  full. When 9 litres of water is drawn from it, it is  $\frac{1}{2}$  full. What is the capacity of the drum?

(1) 28 litres

(2) 36 litres

(3) 27 litres

(4) 20 litres

ANS: 2

EXPLANATION:



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Let  $x$  be capacity of drum

$$\Rightarrow \frac{3x}{4} - 9 = \frac{x}{2}$$

$$\Rightarrow \frac{3x}{4} - \frac{x}{2} = 9$$

$$\Rightarrow \frac{3x - 2x}{4} = 9$$

$$\Rightarrow x = 4 \times 9 = 36 \text{ litres}$$

35. Name the President of Confederation of Indian Industry (CII) for 2020-21.

- (1) Uday Kotak
- (2) Vikram Kirloskar
- (3) T. V. Narendran
- (4) Rakesh Bharti Mittal

ANS: 1

EXPLANATION:

- The Confederation of Indian Industry (CII) is a non-governmental trade association and advocacy group.
- Its headquarters is in New Delhi.
- It was founded in 1895.
- Sanjiv Puri is President of CII for the year 2024 - 25.

36. Which is the world's largest freshwater lake in terms of volume?

- (1) Lake Superior
- (2) Lake Michigan-Huron
- (3) Caspian Sea
- (4) Lake Baikal

ANS: 4



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**EXPLANATION:**

- Lake Baikal is the largest freshwater lake by volume, containing 20% of the world's unfrozen fresh water.
- It is the deepest freshwater lake in the world.
- Lake Baikal is a rift lake located in Russia.
- Lake superior is the largest freshwater lake in the world by area and third largest in volume

37. The floor of a hall measuring 16 metres in length and 12 metres in width is to be paved with square tiles. If the least number of tiles are to be used then what is the length of each square tile?

- (1) 12 meters
- (2) 24 meters
- (3) 48 meters
- (4) 4 meters

ANS: 4

**EXPLANATION:**

Length of each square tile  
 = HCF of 16 and 12

$$\begin{array}{r}
 2 \overline{) 16, 12} \\
 \underline{2 \phantom{0} 8, 6} \\
 4, 3
 \end{array}$$

HCF =  $2 \times 2 = 4$  metre

38. Simplify:

$$\frac{3}{4} \div \frac{5}{12} - \frac{1}{3} \times \frac{9}{5} \left( \frac{2}{3} \div \frac{1}{3} - 1 \right)$$



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A)  $\frac{6}{7}$

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

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

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

ANS: 4

EXPLANATION:

$$\begin{aligned} & \frac{3}{4} \div \frac{5}{12} - \frac{1}{3} \times \frac{9}{5} \left( \frac{2}{3} \div \frac{1}{3} - 1 \right) \\ &= \frac{3}{4} \times \frac{12}{5} - \frac{1}{3} \times \frac{9}{5} \left( \frac{2}{3} \times \frac{3}{1} - 1 \right) \\ &= \frac{9}{5} - \frac{3}{5} (2 - 1) = \frac{6}{5} \end{aligned}$$

39. In an examination, 41% of students failed in Economics, 35% of students failed in Geography and 39% of students failed in History, 5% of students failed in all the three subjects, 14% of students failed in Economics and Geography, 21% of students failed in Geography and History and 18% of students failed in History and Economics. Find the percentage of students who failed in only Economics.

(1) 10%

(2) 14%

(3) 16%

(4) 12%

ANS: 2

EXPLANATION:



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Percentage of students who failed only in Economics  
 $= [41 - (14 + 18) + 5] = 14\%$

40. If  $\times$  means  $+$ ,  $\div$  means  $-$ ,  $+$  means  $\times$  and  $-$  means  $\div$ , then what will be the value of the following expression?

$$40 \times 20 \div 28 - 4 + 2$$

(1) 64

(2) 54

(3) 45

(4) 46

ANS: 4

EXPLANATION:

$$\times = +, \div = -$$

$$+ = \times, - = \div$$

$$\begin{aligned} &40 \times 20 \div 28 - 4 + 2 \\ &= 40 + 20 - 28 \div 4 \times 2 \\ &= 40 + 20 - 7 \times 2 \\ &= 40 + 20 - 14 = 46 \end{aligned}$$

41. The difference between the fractions 5 minutes of an hour and 20 seconds of an hour is:

a)  $\frac{0.7}{9}$

b)  $\frac{7}{12}$

c)  $\frac{16}{180}$



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d)  $\frac{28}{270}$

Ans: a

Explanation:

5 minutes of an hour

$$= \frac{5}{60} = \frac{1}{12}$$

20 seconds of an hour

$$= \frac{20}{3600} = \frac{1}{180}$$

$$\text{Difference} = \frac{1}{12} - \frac{1}{180}$$

$$= \frac{15-1}{180} = \frac{14}{180} = \frac{0.7}{9}$$

42. Who Invented 'www'?

(1) Robert E. Kahn

(2) Charles babbage

(3) Vint Cerf

(4) Tim Berners-Lee

Ans:4

Explanation:

- Sir Timothy John Berners-Lee is an English computer scientist best known as the inventor of the World Wide Web.
- In 2004, Queen Elizabeth II knighted Berners-Lee for his pioneering work.



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- He received the 2016 Turing Award for inventing the World Wide Web, the first web browser.
- Father of the Internet-Vint Cerf
- Father of the computer-Charles Babbage

43. In a school the ratio of the number of boys and girls is 5:6. 20% boys and 25% girls are scholarship holders. How many students did not get a scholarship?

a)  $(\frac{750}{11})\%$

b)  $(\frac{950}{11})\%$

c)  $(\frac{850}{11})\%$

d)  $(\frac{8000}{11})\%$

Ans: c

Explanation:

Number of students who did not get scholarship

$$= \frac{80}{100} \times 5x + \frac{75}{100} \times 6x$$

$$\frac{8x+9x}{2} = \frac{17x}{2}$$

Required percent,

$$\frac{\frac{17x}{2}}{5x+6x} \times 100$$

$$\frac{17x}{2} \times \frac{1}{11x} 100 = \left(\frac{850}{11}\right)\%$$

44. If DO is coded as 60 and SO is coded as 285, then which of the following will be the code for RED?



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(1)360

(2)27

(3)94

(4)299

Ans: 1

Explanation:

A= 1, B = 2, ..... Z = 26

D      O              S      O  
↓      ↓              ↓      ↓  
 $4 \times 15 = 60,$        $19 \times 15 = 285$

Similarly

R   E   D  
↓   ↓   ↓  
 $18 \times 5 \times 4 = 360$

45.The product of my two consecutive numbers is always divisible by:

(1)8

(2)6

(3)12

(4)16

Ans: 1

Explanation:  $2 \times 4 = 8$

$4 \times 6 = 24$

$6 \times 8 = 48$

8, 24, 48 is divisible by 8



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46. If -5 is a root of the quadratic equation  $2x^2 + px - 15 = 0$  and also of the quadratic equation  $p(kx^2 + x) = 0$ , then what are the values of p and k?

- a) 7, 0.2
- b) 7, -0.2
- c) -7, 0.4
- d) -7, -0.2

Ans: a

Explanation:

$$2x^2 + px - 15 = 0$$

(-5) is root of the quadratic equation.

$$\Rightarrow 2(-5)^2 + px - 15 = 0$$

$$\Rightarrow 50 + p \times (-5) - 15 = 0$$

$$\Rightarrow 5p = 35$$

$$\Rightarrow p = \frac{35}{5} = 7$$

$$p(kx^2 + x) = 0$$

$$7(k(-5)^2 - 5) = 0$$

$$\Rightarrow 25k = 5$$

$$\Rightarrow k = \frac{5}{25} = \frac{1}{5} = 0.2$$

47. Which Bollywood celebrity has collaborated with the famous American talk show host, David Letterman for Netflix?

- (1) Amitabh Bachchan
- (2) Salman Khan
- (3) Shahrukh Khan
- (4) Anil Kapoor



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Ans: 3

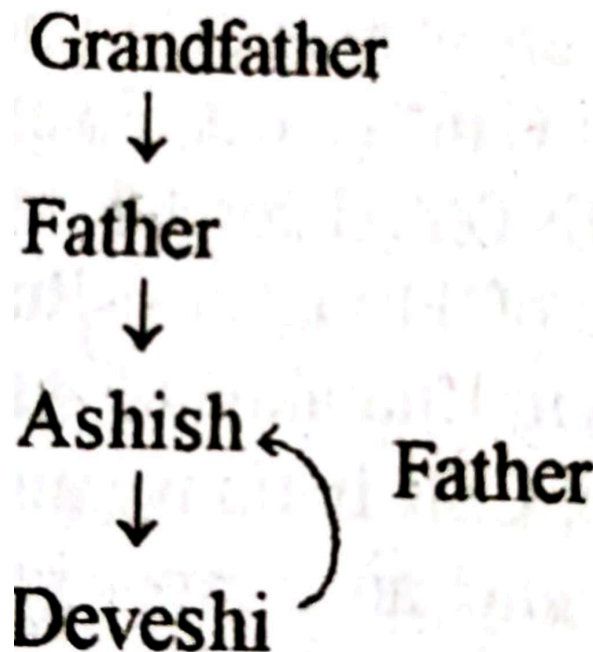
Explanation: Shahrukh Khan has collaborated with the veteran American talk show host David Letterman for a Netflix stand alone special.

48. Introducing Deveshi to the guests, Ashish said, "Her father is the only son of my paternal grandfather's only son". How is Ashish related to Deveshi?

- (1) Brother
- (2) Maternal uncle
- (3) Father
- (4) Grandfather

Ans: 3

Explanation:



49. Rahim invested a certain sum at 5% simple interest for 3 years. His friend Hiralal invested the same sum for 2 years at 7% simple interest. Rahim got Rs. 30 more interest than Hiralal. What was the amount invested by them?

- (1) Rs. 3,000.00
- (2) Rs. 2,000.00
- (3) Rs. 5,000.00



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(4) Rs. 7,000.00

Ans: 1

Explanation:

Let amount invested by them  
= Rs.  $x$

$$\frac{x \times 5 \times 3}{100} - \frac{x \times 7 \times 2}{100} = 30$$

$$\Rightarrow \frac{15x - 14x}{100} = 30$$

$$\Rightarrow x = 30 \times 100 = 3000$$

50. The area of triangle ABC is  $39 \text{ cm}^2$ . D and E are two points on BC such that  $BD = DE = EC$ , then what is the area of triangle ADC?

(1)  $26 \text{ cm}^2$

(2)  $\frac{9}{4} \text{ cm}^2$

(3)  $13 \text{ cm}^2$

(4)  $52 \text{ cm}^2$

Ans: 1

Explanation:



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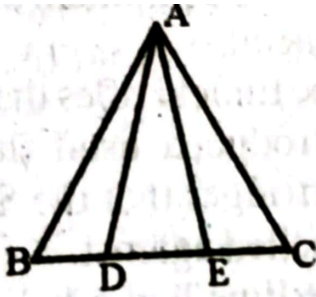
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$$\text{Area of } \triangle ABC = 39 \text{ cm}^2$$

$$\text{Area of } \triangle ADC = \frac{2}{3} \times 39 = 26 \text{ cm}^2$$

51. Select the option that is related to the fourth number in the same way as the first number is related to the second number.

$$3:36::?:20736$$

- (1) 3456
- (2) 728
- (3) 81
- (4) 1728

Ans: 4

Explanation:

$$3 : 36 :: ? : 20736$$

$$\frac{36}{12} = 3$$

$$\text{Similarly, } \frac{20736}{12} = 1728$$

52. If the number 356yx is divisible by 90, then (y-x):

- a) 1
- b) 2
- c) 4



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d)3

Ans: c

Explanation:

$356yx$  is divisible by 90,  $356yx$  is divisible by 9 and 10.

$$\therefore x = 0$$

$$3 + 5 + 6 + y + 0 = 14 + y$$

$$14 + y = 18 \Rightarrow y = 18 - 14 = 4$$

$$y - x = 4 - 0 = 4$$

53. Which corporate organization has signed an MoU to plant Rudraksh tree in Uttarakhand as part of their Corporate Social Responsibility under Namami Gange Programme in 2019?

- (1) HCL Foundation
- (2) Wipro
- (3) Infosys
- (4) IBM

Ans: 1

Explanation: A Memorandum of Understanding (MoU) was signed between National Mission for Clean Ganga, HCL Foundation and INTACH for taking up a project of 'Plantation of Rudraksh Trees in Uttarakhand' as a part part of CSR Initiative under the 'Namami Gange' Programme.

54. Which state in India has the highest coal reserves?

- (1) Orissa
- (2) Jharkhand
- (3) West Bengal
- (4) Chhattisgarh

Ans: 2



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**Explanation:**

- **Jharkhand has the largest reserves of coal in India**
- **Major coal mines in Jharkhand-Jharia, Dhanbad, Ramgarh, Gondalpara, Giridih, Karanpura, Daltonganj**

**55. Who was responsible for introducing Enfield rifles that used the greased cartridges which became the immediate reason of 1857 revolt?**

- (1) Lord William Bentinck
- (2) Henry Hardinge
- (3) Captain Hearsey
- (4) Francis Grant

**Ans: 2**

**Explanation:**

- **Henry Hardinge, who was governor general of India from 1844 to 1848.**
- **He attempted to modernize the army's equipment as governor general.**
- **The Enfield rifles that were first introduced used the greased cartridges that the Sepoys had rebelled against.**
- **Muslims had a belief that the cartridge was greased with pig fat where Hindus believed the grease was made from cow fat.**
- **Thus the Hindu and Muslim soldiers were reluctant to use the 'Enfield' rifle. This was a flashpoint to enrage the soldiers against the Britishers.**
- **This was believed to be the immediate factor for the revolt of 1857.**

**56. At present the average age of 20 students of class ten is 15.5 years. The present age of the class teacher is 47 years. What will be the average age of the students and the class teacher after 5 years?**

- (1) 22 years
- (2) 21.8 years
- (3) 21.5 years
- (4) 22.5 years

**Ans: 1**



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**Explanation:**

Average age of the students  
and class teacher after 5 years

$$\frac{20 \times 15.5 + 47 + 21 \times 5}{21}$$
$$= \frac{310 + 47 + 105}{21} = 22 \text{ years}$$

**57.** A student takes 1.5 hours from home to school at a speed of 5 km/h. By what percent should he increase his speed to reduce the time by 20% and cover the same distance from school to home?

- (1) 25%
- (2) 16%
- (3) 20%
- (4) 15%

**Ans: 1**

**Explanation:**

Distance = speed  $\times$  time  
 $= 5 \times 1.5 = 7.5 \text{ km.}$

New time =  $\frac{80}{100} \times 1.5$   
 $= 4 \times 0.3 = 1.2 \text{ hours}$

New speed =  $\frac{7.5}{1.2} = \frac{25}{4}$

Percent of increase in speed

$$= \frac{\frac{25}{4} - 5}{5} \times 100$$

$$= \frac{25 - 20}{20} \times 100$$

$$= 5 \times 5 = 25\%$$



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58. Three statements are given, followed by three conclusions I, II and III. You have to consider the statements to be true even if they seem to be at variance with commonly known facts and then decide which of the given conclusions logically follow(s) from the given statements.

**Statements:**

Some tigers are rats.

All rats are elephants.

All tigers are cats.

**Conclusions:**

I. Some cats are elephants

II. Some elephants are tigers.

III. Some cats are rats.

(1) Only conclusions II and III follow.

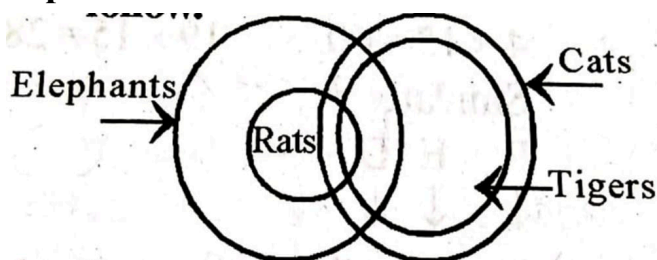
(2) All conclusions I, II and III follow.

(3) Only conclusions I and II follow.

(4) Only conclusions I and III follow.

Ans: 2

**Explanation:**



**Conclusions:**

I. some cats are elephants (✓)

II. some elephants are tigers (✓)

III. some cats are rats (✓)

Hence all three conclusions follow the statements



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59. Glucose molecule breaks down into \_\_\_\_\_

- (1) pyruvic acid
- (2) lactic acid
- (3) mitochondria
- (4) cytoplasm

Ans: 1

Explanation:

- Glycolysis is the metabolic pathway that converts glucose into pyruvic acid. It is the first step in the process of cellular respiration and occurs in the cytoplasm of the cell.
- During glycolysis, one molecule of glucose (a six-carbon compound) is broken down into two molecules of pyruvic acid (a three-carbon compound), producing a net gain of two molecules of ATP (adenosine triphosphate) and two molecules of NADH (nicotinamide adenine dinucleotide).
- Glycolysis does not require oxygen and is therefore an anaerobic process. It is a critical pathway for energy production, especially in cells that lack mitochondria or in conditions where oxygen is scarce.

60. A small text file created by a website that is stored in the user's computer temporarily for that session is called \_\_\_\_\_

- (1) cache
- (2) bug
- (3) malware
- (4) cookie

Ans: 4

Explanation:

- A small text file (up to 4KB) created by a website that is stored in the user's computer either temporarily for that session only or permanently on the hard disk (persistent cookie).
- Cookies provide a way for the website to recognize you and keep track of your preferences.
- A cache in a computer is a temporary storage layer that holds frequently accessed data to improve system performance



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- A bug is an error in a computer program or hardware that causes unexpected or incorrect results
- Malware is software that's intentionally harmful to a computer, network, or server

61. A guard observes an enemy boat, from an observation tower at a height of 180 metres above the sea level to be at an angle of depression of  $60^\circ$ . What is the distance of the boat from the foot of the tower?

a)  $\frac{30}{\sqrt{3}}m$

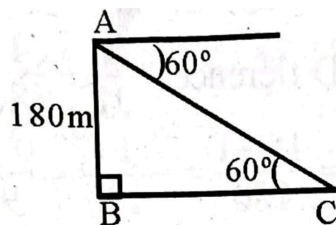
b)  $30\sqrt{3}m$

c)  $\frac{60}{\sqrt{3}}m$

d)  $60\sqrt{3}m$

Ans: 4

Explanation:



Let AB be the observation tower.

In  $\triangle ABC$ ,

$$\tan 60^\circ = \frac{AB}{BC}$$

$$\Rightarrow \sqrt{3} = \frac{180}{BC}$$

$$\Rightarrow BC = \frac{180}{\sqrt{3}} = 60\sqrt{3} \text{ metre}$$



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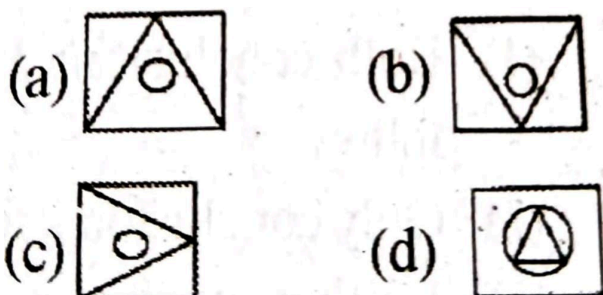


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62. Four figures have been given, out of which three are alike in some manner and one is different. Select the odd one.



1) a

2) b

3) c

4) d

Ans: 4

Explanation: Except figure 'd', in all other three figures, the circle is inside the triangle, whereas in figure 'd', the triangle is inside the circle.

63. Which one of the following is a similarity between acids and bases?

(1) They have pH less than 7

(2) They are bitter

(3) Process of mixing acid or base with water is exothermic

(4) They are used as preservatives

Ans: 3

Explanation:

- Acids and bases both react with water and acids and bases are soluble in nature.
- Both acids and bases are electrolytes which means that they're good conductors of electricity.
- Acids and bases both produce ions in water solution.
- Acids release hydrogen ions ( $H^+$ ) whereas Bases release hydroxide ions ( $OH^-$ ).
- The process of mixing acid or a base in water is an exothermic one that releases some amount of heat.



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**64.They are used as preservatives In the Computer field, FORTRAN stands for:**

- (1) Formula Translation**
- (2) Format Transformer**
- (3) Forensic Transistor**
- (4) Foreign Transmitter**

**ANS: 1**

**EXPLANATION:**

- **FORTRAN stands for Formula Translation.**
- **It is the first computer programming language created in 1957 (IBM company) by John Backus.**
- **It shortened the process of programming and made computer programming more accessible.**

**65.Where was the 11th WTO Ministerial Meeting organized?**

- (1) China**
- (2) Switzerland**
- (3) England**
- (4) Argentina**

**ANS: 4**

**EXPLANATION:**

- **The Eleventh Ministerial Conference (MC11) took place in Buenos Aires, Argentina.**
- **Minister Susana Malcorra of Argentina chaired it.**
- **The 12th Ministerial Conference (MC12) took place in Geneva, Switzerland in 2021.**
- **The World Trade Organization (WTO) held its 13th Ministerial Conference (MC13) at Abu Dhabi in the UAE in 2024.**

**66.When is National Science Day celebrated in India?**

- (1) 21st March**
- (2) 20th January**



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(3) 28th February

(4) 19th February

ANS: 3

EXPLANATION:

- National Science Day is celebrated on 28 February each year.
- It is celebrated to mark the discovery of the Raman Effect by Indian physicist Sir C. V. Raman on 28 February 1928,
- For his discovery Sir C.V. Raman was awarded the Nobel Prize in Physics in 1930.

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

Statements:

All cricketers are players.

Some cricketers are fielders.

Conclusions:

(1) Some fielders are cricketers.

(2) Some fielders are players.

(1) Both conclusions 1 and 2 follow.

(2) Only conclusion 2 follows.

(3) Neither conclusion 1 nor 2 follow.

(4) Only conclusion 1 follows

ANS: 1

EXPLANATION:



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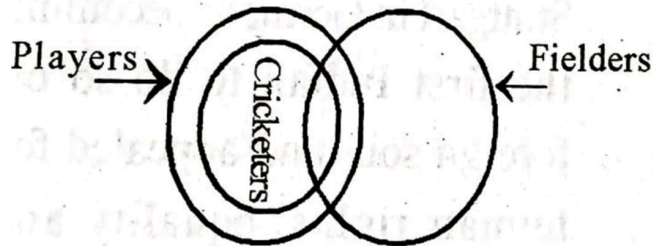
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**Conclusions:**

1. Some fielders are cricketers (✓)
2. Some Fielders are players (✓)

Hence both conclusion follow the statement

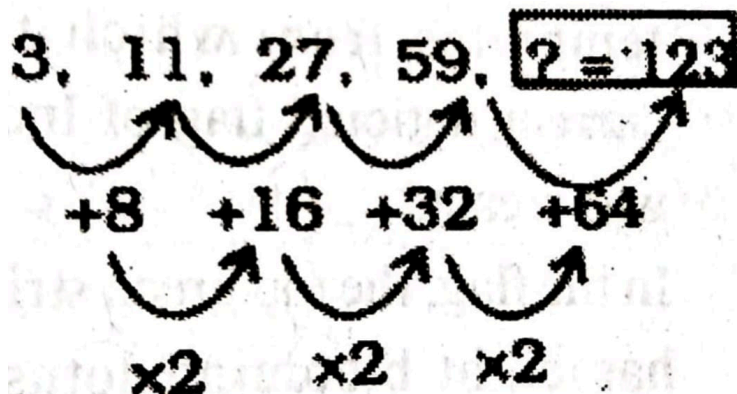
68. Select the number from among the given options that can replace the question mark (?) in the following series.

3, 11, 27, 59, ?

- (1) 121
- (2) 129
- (3) 122
- (4) 123

ANS:4

EXPLANATION:



69. Which missile destroyer of the Indian Navy has been decommissioned after 36 years in May 2019?

- (1) INS Rana



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- (2) INS Ranjit
- (3) INS Vikrant
- (4) INS Vikramaditya

ANS: 2

EXPLANATION:

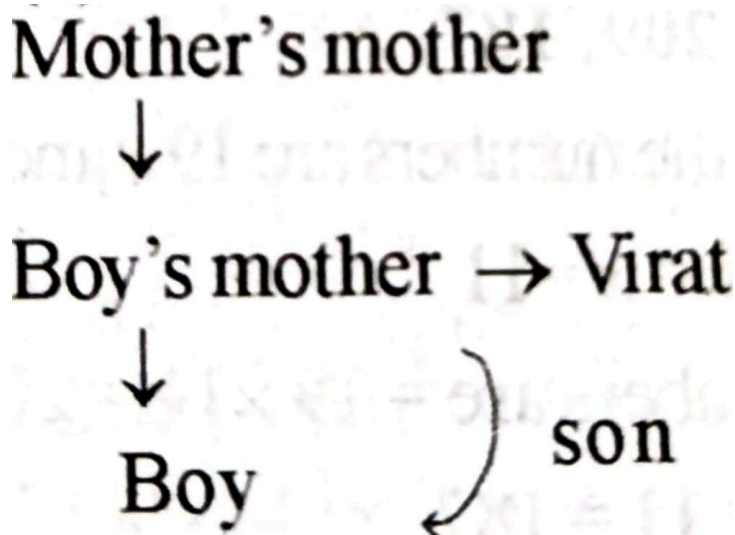
- The Indian Navy's frontline missile destroyer INS Ranjit was decommissioned after 36 years of service.
- It was commissioned on September 15, 1983, with Captain Vishnu Bhagwat in command.
- INS Ranjit was third of five Kashin-class destroyers.

70. Introducing a boy, Virat said, "His mother is the only daughter of my mother-in-law." How is the boy related to Virat?

- (1) Son
- (2) Husband
- (3) Brother
- (4) Uncle

ANS: 1

EXPLANATION:



71. Which former ISRO chairman has been awarded France's highest civilian honour in 2019?



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- (1) A.S. Kiran Kumar
- (2) Kailasavadivoo Sivan
- (3) K. Radhakrishnan
- (4) G Madhavan Nair

ANS: 1

EXPLANATION:

- A.S. Kiran Kumar, the former chairperson of the Indian Space Research Organisation, was conferred France's highest civilian award "Chevalier de l'Ordre national de la Legion d'Honneur" for his contribution to India-France space cooperation.
- Under his leadership, both countries joined hands for launch vehicle technologies, Earth observation, communication and navigation satellites.

72. Find the approximate value of  $(2.697+0.498)^2 - (2.697-0.498)^2$

- A) 5.37
- B) 2.00
- C) 2.199
- D) 3.195

ANS: A

EXPLANATION:

$$(2.697 + 0.498)^2 - (2.697 - 0.498)^2$$

$$(a+b)^2 - (a-b)^2 = 4ab$$

∴ Required value

$$= 4 \times 2.697 \times 0.498 = 5.37$$

73. Which article of the Indian Constitution grants the right to equal opportunity in public employment?

- (1) Article 16
- (2) Article 14



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(3) Article 15

(4) Article 13

ANS: 1

EXPLANATION:

- **Article 16 in the Constitution of India refers to equality of opportunity in government jobs.**
- **Article 16(1) provides for equality of opportunity for all citizens in matters relating to 'employment or appointment' to any office under the State**
- **Article 16(2)- No citizen shall, on grounds only of religion, race, caste, sex, descent, place of birth, residence or any of them, be ineligible for, or discriminated against in respect of, any employment or office under the State**
- **Article 13 of the Indian constitution declares that all laws that are inconsistent with or in derogation of any of the fundamental rights shall be void.**
- **Equality Before Law: Article 14 says that no person shall be denied treatment of equality before the law or the equal protection of the laws within the territory of India.**
- **Prohibition of Discrimination: Article 15 provides that no citizen shall be discriminated against on grounds only of religion, race, caste, sex or place of birth.**

74. Which of the following build-ings was designed by F.W. Stevens?

(1) The Town Hall, Bombay

(2) Bombay Secretariat

(3) Chatrapati Shivaji Maharaj Terminus (Formerly Victoria Terminus)

(4) Horniman Circle (Formerly Elphinstone Circle)

ANS: 3

EXPLANATION:



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- Frederick William Stevens was an English architectural engineer who worked for the British colonial government in India.
- Steven's most notable design was the railway station Victoria Terminus in Bombay (in 1996 renamed the Chhatrapati Shivaji Terminus in Mumbai).
- Stevens also designed the Municipal Corporation Building Mumbai, the Royal Alfred Sailor's Home, the Post-Office Mews at Apollo Bunder, the head offices of the BB&CI Railway at Churchgate, and the Oriental Life Assurance Offices at the Flora Fountain.
- He also designed the Rajamahal palace at Mehsana.

75. Rajni can do 25% less work than Mohan and Mohan can do 20% more work than Rizwan. At the end of the completion of the work, what will be Mohan's share out of the profit of Rs. 930?

- (1) Rs. 350  
(2) Rs. 360  
(3) Rs. 300  
(4) Rs. 260

ANS: 2

EXPLANATION: Mohan:Rajni:Rizwan

$$100 : 75 : \frac{100 \times 100}{120} = \frac{250}{3}$$

$$\Rightarrow 300 : 225 : 250$$

$$\Rightarrow 12 : 9 : 10$$

Mohan's share

$$= \frac{12}{12 + 9 + 10} \times 930$$

$$= \frac{12}{31} \times 930 = \text{Rs. 360}$$



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76. The first Indian flag to be hoisted on foreign soil was unfurled \_\_\_\_\_ by Bhikaji Cama in 1907.

- (1) Germany
- (2) England
- (3) Russia
- (4) France

ANS: 1

EXPLANATION:

- On August 22, 1907, Bhikaji hoisted the Indian flag in Stuttgart in Germany becoming the first Indian to do so on foreign soil, and appealed for human rights, equality and freedom from British rule.
- The flag she unfurled was codesigned by Cama and Shyamji Krishna Varma, and would later serve as one of the templates from which the current national flag of India was created.
- In the flag, the top green stripe has eight blooming lotuses representing pre independence India's eight provinces.
- 'Vande Mataram' was written across the central saffron stripe in Hindi.
- On the bottom red stripe, a half moon was on the right and the rising sun on the left indicating the Hindu and Muslim faith.

77. Two numbers are in the ratio 19:17. Their HCF is 11. Find the numbers.

- (1) 190, 170
- (2) 209, 187
- (3) 1700, 1900
- (4) 221, 247

ANS: 2

EXPLANATION:

Let the numbers be  $19x$  and  $17x$

HCF =  $x = 11$

Numbers are =  $19 \times 11 = 209$

$17 \times 11 = 187$



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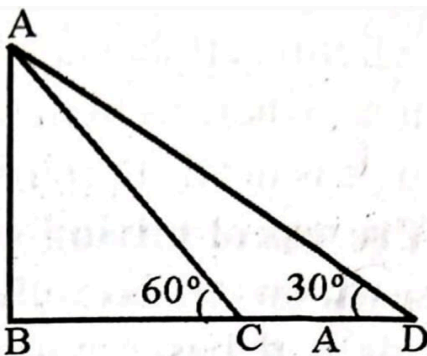
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78. A man standing on the banks of a river observes that the angle subtended by a tree on the opposite bank is  $60^\circ$ . He walks 36 metres backward on the bank and observes the angle to be  $30^\circ$ . What is the breadth of the river?

- (1) 10 metres
- (2) 18 metres
- (3) 20 metres
- (4) 28 metres

ANS: 2

EXPLANATION:



$$AB = h, BC = x$$

$$\tan 60^\circ = \frac{AB}{BC}$$

$$\sqrt{3} = \frac{h}{BC} \Rightarrow h = \sqrt{3} x$$

$$\tan 30^\circ = \frac{AB}{BD}$$

$$\Rightarrow \frac{1}{\sqrt{3}} = \frac{\sqrt{3}x}{x+36}$$

$$\Rightarrow x + 36 = \sqrt{3}x \times \sqrt{3}$$

$$\Rightarrow x + 36 = 3x \Rightarrow 2x = 36$$

$$\Rightarrow x = \frac{36}{2} = 18$$



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79. Which of the following is an example of non-infectious disease?

- (1) High Blood Pressure
- (2) Typhoid
- (3) Influenza
- (4) Pneumonia

ANS: 1

EXPLANATION:

- Infectious diseases are disorders caused by organisms such as bacteria, viruses, fungi or parasites.
- Common Infectious Diseases are:
  - ❖ Chickenpox
  - ❖ Pneumonia
  - ❖ Diphtheria
  - ❖ Common cold
  - ❖ Giardiasis
  - ❖ HIV/AIDS
  - ❖ Infectious mononucleosis
  - ❖ Influenza (flu)

80. The present MD and CFO of the World Bank Anshula Kant was earlier the MD of \_\_\_\_\_

- (1) Bank of Baroda
- (2) Oriental Bank of Commerce
- (3) SBI
- (4) Indusind Bank

ANS: 3

EXPLANATION:

- Anshula Kant is the chief financial officer and managing director of the World Bank Group, appointed in 2019.
- In 2018, she became the managing director of SBI

81. Three consecutive integers when taken in increasing order and multiplied by 2, 3 and 4 respectively adds up to 74. What is the greatest number?



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(1) 9

(2) 8

(3) 14

(4) 10

ANS: 1

EXPLANATION:

Let three consecutive integers

are  $x, x + 1, x + 2$

$$2x + 3(x + 1) + 4(x + 2) = 74$$

$$\Rightarrow 2x + 3x + 3 + 4x + 8 = 74$$

$$\Rightarrow 9x = 74 - 11$$

$$\Rightarrow x = \frac{63}{9} = 7$$

Greatest number =  $x + 2$

$$= 7 + 2 = 9$$

82. Which of the following is one of the founding countries of ASEAN?

(1) Australia

(2) Cambodia

(3) Malaysia

(4) India

ANS: 3

EXPLANATION:

- ASEAN was established on 8 August 1967 in Bangkok by the five original member countries: Indonesia, Malaysia, Philippines, Thailand and Singapore
- Brunei Darussalam joined on 8 January 1984.
- Vietnam on 28 July, 1995.



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- Laos and Myanmar on 23 July, 1997.
- Cambodia on 30 April, 1999.

83. A question and two statements are given. Identify which of the statements is/ are sufficient to answer the question.

**Question:**

On which date is Evanshu's birthday?

**Statements:**

- (1) Evanshu's birthday is on the Republic Day of a country
- (2) The country's national flag is a tricolour flag with an Ashoka Chakra in its centre.

- (1) Both statements 1 and 2 are sufficient independently.
- (2) Both statements 1 and 2 are sufficient together.
- (3) Statement 1 is sufficient but statement 2 is not sufficient.
- (4) Statement 2 is sufficient but statement 1 is not sufficient.

**ANS: 2**

**EXPLANATION:** According to statement '1' Evanshu's birthday on the Republic day of a country" it is not clear that about which country. But from statement '2', The country's national flag is a tricolour flag related to India. Hence both statements 1 and 2 are sufficient together to answer the question.

84. The diagonal of a square is  $\sqrt{200}$  cm. If the sides of a rectangle are in the ratio 5: 2, which is the same as the area of the square, then what is the length of the rectangle?

- A)  $2\sqrt{10}$  cm
- B)  $\sqrt{250}$  cm
- C)  $\sqrt{200}$  cm
- D)  $\sqrt{20}$  cm

**ANS: B**

**EXPLANATION:**

Area of rectangle = area of square,



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$$5x \times 2x = \frac{(\sqrt{200})^2}{2}$$

$$10x^2 = \frac{200}{2} \Rightarrow x = \sqrt{10}$$

$$\begin{aligned} \text{Length of rectangle} &= 5x \\ &= 5 \times \sqrt{10} = \sqrt{250} \text{ cm} \end{aligned}$$

**85. In an election, there were only two candidates. The losing candidate got 48% of the total votes. His opponent got 6000 votes more and won by a margin of 3% votes. What was the number of invalid votes?**

- (1) 2000
- (2) 6000
- (3) 3000
- (4) 3200

**Ans: 1**

**Explanation:**



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Let total number of votes =  $x$

$$\Rightarrow \frac{51x}{100} - \frac{48x}{100} = 6000$$

$$\Rightarrow 51x - 48x = 6000 \times 100$$

$$\Rightarrow 3x = 600000$$

$$\Rightarrow x = \frac{600000}{3}$$

$$= 200000$$

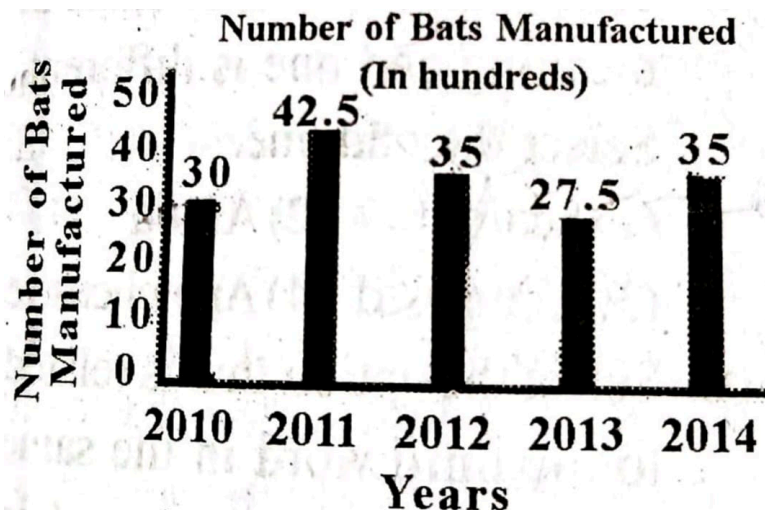
Number of invalid votes

$$= (100 - 48 - 51)\% \text{ of } 200000$$

$$= \frac{1}{100} \times 200000$$

$$= 2000$$

86. The following graph shows the number (in hundreds) of bats manufactured by a factory in Meerut over the period of 2010 to 2014.



What is the average number of bats manufactured during 2010 to 2014?

- (1) 3600
- (2) 3655
- (3) 3400



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(4) 3450

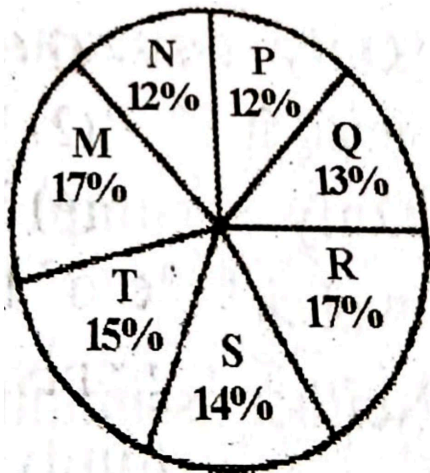
Ans: 3

Explanation:

$$\begin{aligned} & \text{Average number of bats} \\ & \text{manufactured during 2010 to 2014} \\ & = \frac{3000 + 4250 + 3500 + 2750 + 3500}{5} \\ & = \frac{17000}{5} \\ & = 3400 \end{aligned}$$

87. The following pie chart shows the distribution of students enrolled in an English (Hons.) course in seven different colleges (P, Q, R, S, T, M and N) of a university.

Percentage of students enrolled in English (Hons.)



If the total number of students enrolled in the English (Hons.) course from all the seven colleges is 2800, then how many students from colleges M and S are enrolled in the course?

(1) 868

(2) 913

(3) 940



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(4)752

Ans: 1

**Explanation:** Number of students from college M and S enrolled in the course = (17+14) % of 2800

$$= \frac{31}{100} \times 2800$$

$$= 31 \times 28 = 868$$

88.The given table shows the number of people who joined four different gyms in Delhi during 2014 to 2018.

Year \ GYM	A	B	C	D
2014	190	113	95	176
2015	210	227	310	277
2016	183	161	191	239
2017	169	117	225	196
2018	278	269	213	293

By what approximate percentage is the number of people who joined gym A in 2018 greater than that who joined gym D in 2016?

(1)14

(2) 16

(3)12

(4) 10

Ans: 2

**Explanation:**



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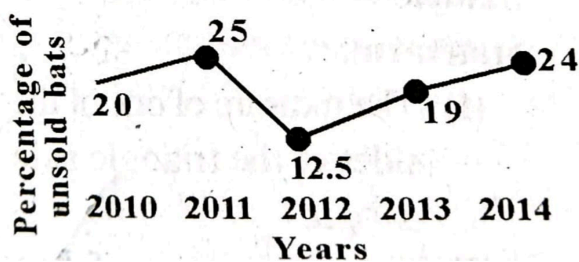
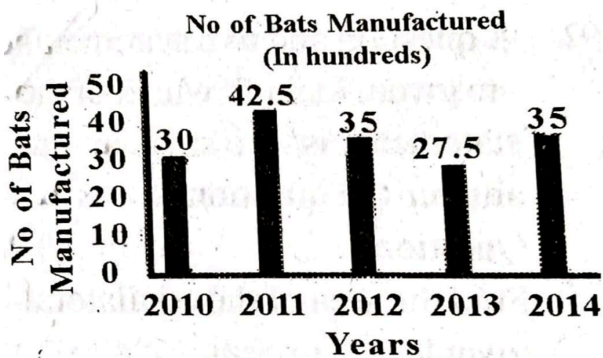
Required percentage =

$$\frac{278 - 239}{239} \times 100$$

$$\frac{39}{239} \times 100$$

$$= 16.31\% = 16\%$$

89. The given graph shows the number (in hundreds) of bats manufactured and the following line graph shows the percentage of unsold bats by a factory in Meerut over the period of 2010 to 2014.



What is the difference between the number of bats sold in the year 2010 and year 2014?

- (1) 240
- (2) 200
- (3) 260
- (4) 500

Ans: 3



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**Explanation:**

Number of bats sold in the year

2010 = 80% of 3000

$$\frac{80 \times 3000}{100} = 2400$$

Number of bats sold in the year

2014 = 76% of 3500

$$\frac{76}{100} \times 3500 = 2660$$

Required difference

$$= 2660 - 2400 = 260$$

If  $p + q$  implies  $p - q$ ,  $p - q$   
implies  $p \times q$ ,  $p \times q$  implies  
 $p \div q$  and  $p \div q$  implies  $p + q$ ,  
then find the value of

90.  $5 + 6 - 75 \times 15 \div 30$

a)10

b)0

c)5

d)-5

Ans: c

**Explanation:**



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$$\begin{aligned}
 &5 - 6 \times 75 \div 15 + 30 \\
 &= 5 - 6 \times 75 \times \frac{1}{15} + 30 \\
 &= 5 - 30 + 30 = 5
 \end{aligned}$$

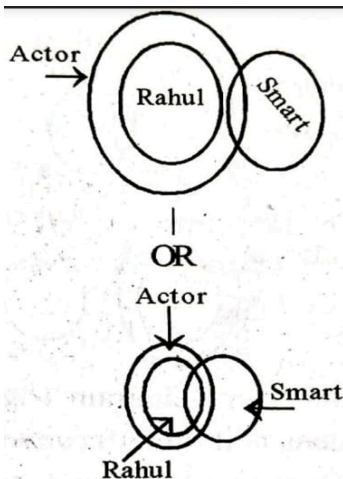
91. Read the following set of statements A, B, C, D and select the set/s in which the third statement is a logical conclusion of the first two.

- A. Rahul is an actor. Some actors are smart. Rahul is smart.  
 B. Some men are soldiers. All soldiers are patriotic. Some men are patriotic.  
 C. All cricketers are athletes. Some men are soldiers.  
 D. All actors are handsome. Aman is not an actor. Aman is not handsome.

- (1) Only D  
 (2) Only B  
 (3) Only A, B and C  
 (4) Only D and B

Ans: 2

Explanation:



From above Venn diagram I & II, Statement third (3rd) cannot be certainly conclude that Rahul is smart Rahul may or may not be smart.



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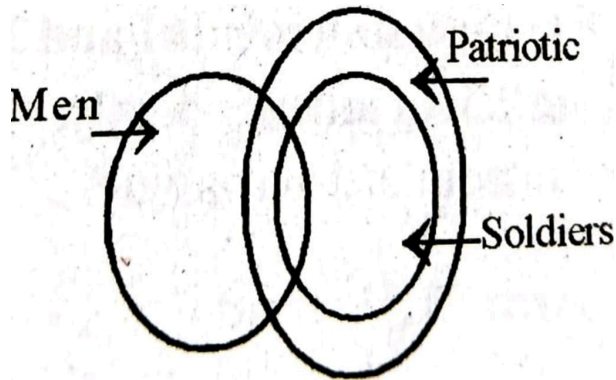
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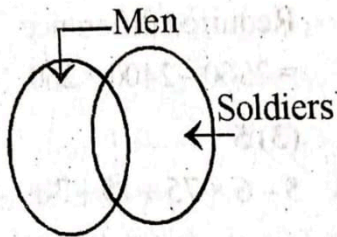
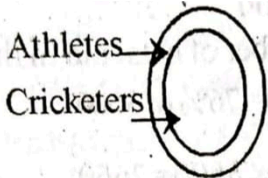
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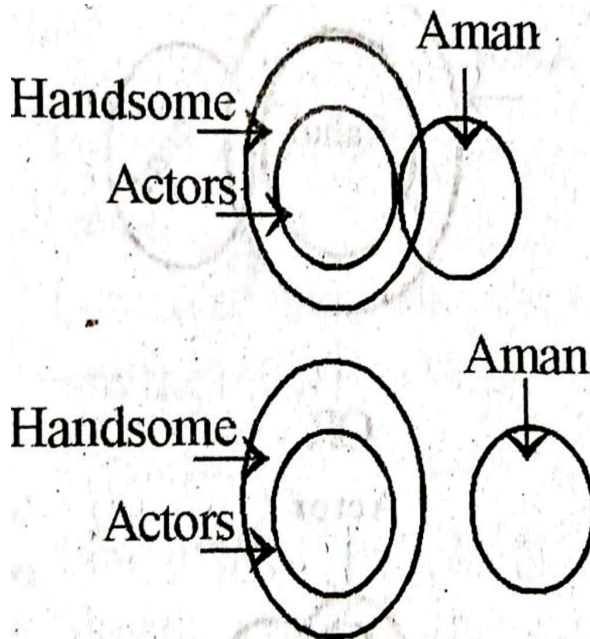


From above Venn diagram. statement third (3rd) is a logical conclusion that some men are patriotic



from above Venn diagram Statement third (3rd) can't be logically concluded that some men are patriotic.





From above diagram I & II, Statement third (3rd) cannot be certainly conclude that Aman is not hand some. Aman may or may not be handsome. Hence only statement 'B' set with the third statement is a logically conclusion of the first two.

92. A question and two statements are given. Identify which of the statements is/ are sufficient to answer the question.

Question:

Find the area of the equilateral triangle.

Statements:

- (1) The measure of one of the sides of the triangle side is 7 cm.
- (2) The perimeter of the triangle is 21 cm.

- (1) Both statements 1 and 2 are sufficient independently.
- (2) Neither statement 1 nor 2 is sufficient independently.
- (3) Statement 1 is sufficient but statement 2 is not sufficient.
- (4) Statement 2 is sufficient but statement 1 is not sufficient.

Ans: 1

Explanation:

For equilateral triangle:



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$$\text{Area} = \sqrt{\frac{3}{4}} \times \text{side}^2$$

From statement '1' we can find the area of the equilateral triangle because side (7 cm) is given.

From Statement 2: perimeter of equilateral triangle = 21 cm

$$\text{Side of equilateral triangle} = \frac{21}{3} = 7 \text{ cm}$$

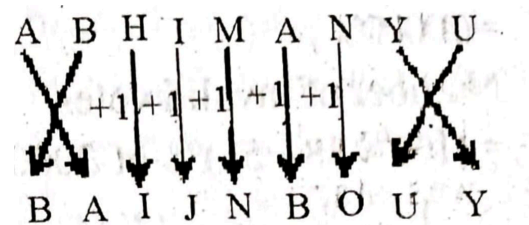
Again we can find the area of the equilateral triangle Hence both statements 1 and 2 are sufficiently independently to find the area of the triangle.

93. In a certain language, ABHIMANYU is written as BAIJNBOUY. How will KARMPUTRA be written as in that language?

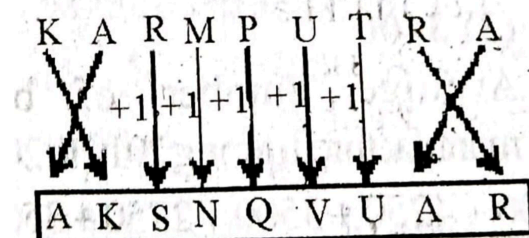
- (1) ABRNQVUSR
- (2) AKSPMTUSB
- (3) ABRNVUTAR
- (4) AKSNQVUAR

Ans: 4

Explanation:



Similarly



94. Consider the given statement and decide which of the given assumptions is/are implicit in the statement.



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**Statement:**

**In the last year, Pune University has launched a number of vocational courses for the better future of students.**

**Assumptions:**

**A. Pune University believes that vocational education provides a better future for students**

**B. Pune University is conscious about the future of students.**

**(1) Only assumption A is implicit**

**(2) Only assumption B is implicit**

**(3) Neither assumption A nor B is implicit.**

**(4) Both assumptions A and B are implicit.**

**Ans: 4**

**Explanation: According to the given statement both assumptions are implicit in the statement.**

**95. Letters of a word are jumbled and each letter has been given a unique number. Select the combination of numbers from among the given options, so that the letters arranged accordingly will form the meaningful word.**

**R A M S T**

**1 2 3 4 5**

**(1)25431**

**(2) 13245**

**(3)32514**

**(4)43215**

**Ans:4**

**Explanation:**



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R A M S T

↓ ↓ ↓ ↓ ↓

1 2 3 4 5

Arrangement of letters for  
meaningful word:

4 3 2 1 5

↓ ↓ ↓ ↓ ↓

S M A R T

96. Read the given statements and conclusions carefully and decide which of the conclusions logically follow(s) from the statements.

Statements:

John is a renowned sports person.

All sportspersons are fit and active.

John earns a large amount every year through advertisements of various products.

Conclusions:

A. All renowned sports persons earn large amounts through advertisements.

B. John is fit and active.

C. John being popular advertises only famous products.

(1) Only conclusion B follows.

(2) Both conclusions A and C follow.

(3) Only conclusion C follows.

(4) Both conclusions A and B follow.

Ans: 1

Explanation: According to the statement 'John is a renowned sports person and all sports persons are fit and active. It means Jon is fit and active, Conclusion 'A' does not follow the statement. Conclusion 'C' also does not follow the statement.

Hence only conclusion 'B' follows the statements.



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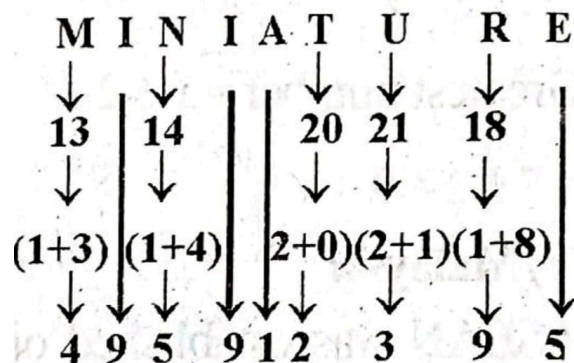
97. In a certain code language. MINIATURE is written as 495912395. How will PRIVATE be written as in that language?

- (1) 7904125
- (2) 9749125
- (3) 7994125
- (4) 7919125

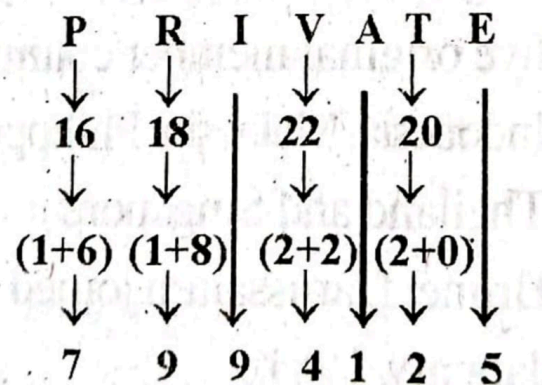
Ans: 3

Explanation:

A = 1, B = 2, ..... Z = 26



Similarly



98. The average weight of a group of 20 boys was calculated to be 65 kg and it was later discovered that the weight of a boy was misread as 76 kg instead of the correct weight 66 kg. The correct average weight was:

- (1) 65.5 kg
- (2) 64.5 kg
- (3) 66 kg



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(4) 63 kg

Ans: 2

Explanation:

Correct average weight

$$= \frac{20 \times 65 + 66 - 76}{20}$$

$$= \frac{1300 - 10}{20}$$

$$= \frac{1290}{20} = 64.5 \text{ kg}$$

99. Four words have been given, out of which three are similar in meaning and one is different. Select the odd one.

- (1) Scared
- (2) Afraid
- (3) Composed
- (4) Apprehensive

Ans: 3

Explanation: Scared, Afraid, Apprehensive all three have common meaning in any respect because they introduced feelings of fear but words composed has totally different meaning with respect to these three words.

100. Select the option that is related to the third word in the same way as the second word is related to the first word.

Painter: Brush:: Author:

- (1) Words
- (2) Story



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**(3) Book**

**(4) Pen**

**Ans: 4**

**Explanation:As painter paint the thing with the help of Brush similarly  
Author writes with the help of a pen.**



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