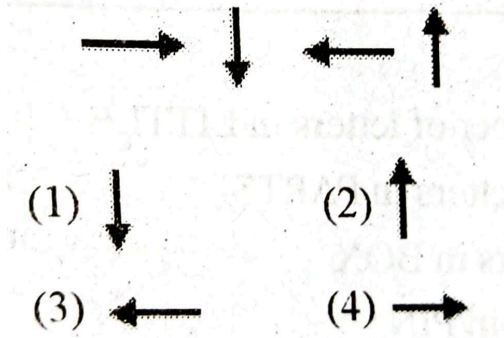


RRB NTPC CBT-1 EXAM
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1. Select the option that would come next in the given series.



Ans: (4)

Explanation:

The given series show that each line moves 90° clockwise direction.

2. Where was the First experimental satellite telecommunication earth station set up in 1967 in India?

(1) Aurangabad

(2) Ahmednagar

(3) Allahabad

(4) Ahmedabad

ans:(4) Ahmedabad

Explanation:

In 1967, the first 'Experimental Satellite Communication Earth Station (ESCES)' located in Ahmedabad was operationalized.



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Which also doubled as a training centre for the Indian as well as International scientists and engineers.

To establish that a satellite system can contribute to the national development, ISRO was clear that it need not wait for its own satellites to begin application development, while foreign satellites could be used in the initial stages.

3. Which of these is NOT a computer characteristic?

(1) Intelligence quotient

(2) Data storage

(3) Speed

(4) Accuracy

ans:(1) Intelligence quotient

Explanation:

The major characteristics of the computer can be classified into Speed, Accuracy, Diligence, Versatility, Reliability, Consistency, Memory, Storage Capacity, Remembrance Power, and Automation.

Intelligence quotient is a standard measure of an individual's intelligence level based on psychological tests.

Intelligence quotient was traditionally calculated by dividing a person's mental age, as determined by an intelligence test, by the person's chronological age and multiplying by 100 to produce a ratio IQ.

4.



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If $x = 2$ and $y = 5$, evaluate
 $5xy - y^2$.

(1) 20

(2) 25

(3) 40

(4) 0

Ans:(2) 25

Explanation:

$$5 \times 2 \times 5 - 5^2 = 50 - 25 = 25$$

5. A bus passes two persons moving in the direction of the moving bus at a speed of 3 km/h and 5-km/h, respectively. The bus passes the first person in 10s and the second person in 11 s. The speed of the bus is:

(1) 27 km/h

(2) 25 km/h

(3) 24 km/h

(4) 28 km/h

ans:(2) 25 km/h



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Distance bus travels

$$= (5 \times 11 - 3 \times 10) \times \frac{5}{18}$$
$$= (55 - 30) \times \frac{5}{18} = \frac{125}{18} \text{ m}$$

$$\text{Speed of bus} = \frac{125}{18} \text{ m/s}$$

$$= \frac{125}{18} \times \frac{18}{5} = 25 \text{ km/hr}$$

6. The balance of exports and imports of goods is referred to as:

(1) current account deficit

(2) trade balance

(3) current account balance

(4) current account

Ans: The Trade balance is the difference between the monetary value of exports and imports of output in an economy. It is one of the most important macroeconomic parameter.

Trade Balance = value of goods Exports - value of goods Imports.

**Trade surplus: value of goods Exports > value of goods imports
Trade deficit: value of goods imports > value of goods Exports**

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

Shirt: Apparel :: Necklace : ?



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(1) Chain

(2) Neck

(3) Gold

(4) Jewellery

Ans:(4) Jewellery

Shirt belongs to apparel, Necklace belongs to jewellery.

8.The sum of the deviations about the mean is always:

(1) positive

(2) zero

(3) the range

(4) the total standard deviation

Ans:(2) zero

The sum of the deviation of given set of a data about their mean is always zero ie sum of positive deviation from mean is equal to the sum of negative deviation.

9. Colonial rule was first established in:

(1) Surat

(2) Bengal



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(3) Delhi

(4) Bombay

Ans:

British made the earliest attempts to reorder rural society, and establish a new revenue system and a new regime of land rights in Bengal.

In 1793, the Permanent Settlement was implemented by the British.

During the age of Discovery, the region of the Indian subcontinent that was under the jurisdiction of European colonial powers was known as Colonial India.

Conquest and Trade, particularly in spices, were used to exert European authority.

10. What is the least number, which when divided by 12, 21 and 35, leaves the same remainder 6?

(1) 420

(2) 576

(3) 414

(4) 426

Ans:(4) 426

Explanation:LCM (12, 21, 35) = 420,

Remainder =6

Required Number



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$$= 420 + 6 = 426$$

11. When was India's hundredth space mission launched?

(1) September, 2012

(2) September, 2010

(3) September, 2014

(4) September, 2009

ANS:(1) September, 2012

EXPLANATION:

India successfully launched its 100th space mission on 9th September 2012 using its Polar Satellite Launch Vehicle to send two new satellites into orbit from Sriharikota space port in Andhra Pradesh.

The PSLV rocket carried the Astrium Services' Spot 6 commercial Earth observation satellite into low Earth orbit in a launch that represented a milestone in the gradual privatization of commercial remote sensing.

Indian Space Research Organisation (ISRO) is an Indian space research wing that was created in 1969.

ISRO is managed by the department of space, which reports directly to the prime minister of India.

S. Somnath is the current chairman of ISRO.

12. Which is Satyajit Ray's famous film about the decline of the aristocratic zamindari style of living?

(1) Apur Sansar



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(2) Charulata

(3) Pather Panchali

(4) Jalsaghar

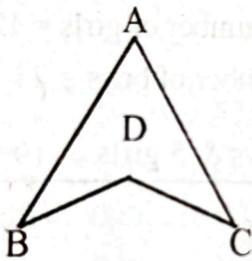
ANS:

EXPLANATION: Jalsaghar (aka "The music Room") is a 1958 drama film directed by master Indian film maker Satyajit Ray.

Based on a short story of the same name by Bangla writer Tarashankar Bandopadhyay. Jalsaghar presents the tale of the decline of a feudal lord in pre-independence India.

Actor: Chhabi Biswas

13. In the given figure, $\angle ABD=55^\circ$ and $\angle ACD=30^\circ$. If $\angle BAC=y^\circ$ and non-reflex $\angle BDC= x^\circ$ then what is the value of $x - y$?



(1) 95

(2) 105

(3) 85

(4) 15

ANS: (3) 85



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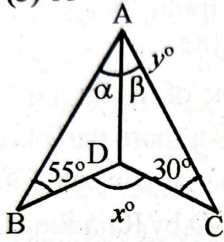


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(3) 85



$$\angle BAC = \alpha + \beta = y$$

$$\angle ADB = 180 - \alpha - 55,$$

$$\angle ADC = 180 - \beta - 30$$

$$\angle ADB + \angle ADC + x = 360^\circ$$

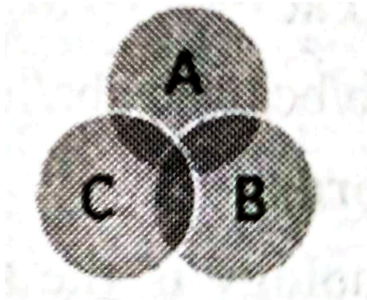
$$180 - \alpha - 55 + 180 - \beta - 30 + x = 360^\circ$$

$$360 - \alpha - \beta - 85^\circ + x = 360^\circ$$

$$x - (\alpha + \beta) = 85^\circ$$

$$x - y = 85^\circ$$

14. Select the option that is best represented by the given Venn diagram.



- (1) Doctor, Man, Student
- (2) Family, Parents, Children
- (3) Table, Chair, Furniture
- (4) Gold, Silver, Ornaments



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ANS:(1) Doctor, Man, Student

Explanation:

A = Doctor

B= Man

C = Student

Option 1 is correct.

15. The Rourkela Steel Plant started with the inauguration of first blast furnace by the then President of India in:

(1) 1968

(2) 1969

(3) 1959

(4) 1958

ANS:(3) 1959

Explanation:

Rourkela steel plant (RSP) in Rourkela, Odisha is the first integrated steel plant in the public sector in India.

It was set up with West Germany collaboration with an installed capacity of 1 million tonnes.

It is operated by the steel authority of India.

On 3 February 1959, then President Rajendra Prasad inaugurated RSP's first blast furnace named 'Parvati'.

16. When is International Dance Day celebrated?



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(1) 27th April

(2) 28th April

(3) 29th April

(4) 30th April

ANS:(3) 29th April

Explanation:

The Dance Committee of the International Theatre Institute (ITI), UNESCO's major partner for the performing arts, developed International Dance Day as a global celebration of dance.

Every year on the 29th of April, the event commemorates the birth of Jean-Georges Noverre (1727-1810), the father of modern ballet.

Through events and festivals organized on the date all across the world, the day aims to stimulate involvement and education in dance.

ITI is officially recognized by UNESCO as the event's originator and organizers.

17. Dena Bank and Vijaya Bank have recently merged with:

(1) Bank of Baroda

(2) Punjab National Bank

(3) State Bank of India

(4) Bank of India

ANS:(1) Bank of Baroda

Explanation:



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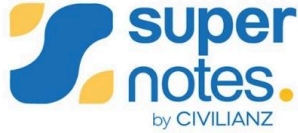
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Dena Bank and Vijaya Bank have been merged with Bank of Baroda with effect from April 1, 2019.

The bank said all customers will now have access to a total of 8,248 domestic branches and 10,318 ATMs across the country.

Punjab National Bank is anchoring its merger with Oriental Bank of Commerce and United Bank of India to create the country's second-largest lender in terms of business size.

18. The value so obtained on adding the sum and the difference of the numbers 3.03 and 2.05 is:

(1) 60.06

(2) 600.6

(3) 6.06

(4) 0.606

ANS:(3) 6.06

Explanation:

Sum of 3.03 and 2.05 = 5.08 Difference = 3.03-2.05=0.98 Required sum = 5.08+0.98=6.06

19. In which year was India's first nuclear reactor formally inaugurated by Prime minister JL. Nehru?

(1) 1955

(2) 1957



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(3) 1967

(4) 1965

ANS:(2) 1957

Explanation:

Apsara, India's and Asia's first nuclear reactor, went into operation on August 4, 1956 inaugurated by Prime Minister Nehru on January 20, 1957.

Homi Jehangir Bhabha founded the Atomic Energy Establishment Trombay (AEET) in January 1954.

On March 15, 1955, the decision was made to construct India's first nuclear research reactor. Dr. Homi Bhabha was in charge of the entire programme.

This reactor was designed to look like a swimming pool and have a thermal capacity of 1 MW (MWt). The construction of the research reactor began on the grounds of the Bhabha Atomic Research Center (BARC).

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

(1) (32, 13)

(2) (51,24)

(3) (42,15)

(4) (72,45)

ANS:(1) (32, 13)

Explanation:

$$32-13=19$$

$$51-24=27,$$



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42-15-27

72-45-27

21. The addition to capital stock in an economy is measured by net investment or new capital formation, which is expressed as:

(1) Net investment = Gross investment + depreciation

(2) Depreciation = Net investment + Government investment

(3) Net investment = Gross investment - depreciation

(4) Government investment = Net investment - depreciation

ANS: (3) Net investment = Gross investment - depreciation

Explanation:

Gross Investment is referred to as the total expenditure that is made for buying capital goods over a time period, without accounting for depreciation.

In other words, gross investment is the amount that a company has invested in particular assets or the business as a whole without considering depreciation for the same

Net Investment, is the actual addition that is made to the capital stock in a given period.

Net Investment takes into account the depreciation and is calculated by subtracting the depreciation from the gross investment

22. Which of the following is NOT a rational number?

$\sqrt{3^2 + 4^2}$, $\sqrt{12.96}$, $\sqrt{125}$ and $\sqrt{900}$



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(1) $\sqrt{900}$

(2) $\sqrt{125}$

(3) $\sqrt{3^2 + 4^2}$

(4) $\sqrt{12.96}$

ANS:(2) $\sqrt{125}$

Explanation:

$\sqrt{3^2 + 4^2} = \sqrt{25} = 5$ is a rational number

$\sqrt{12.96} = 3.6$ is a rational number

$\sqrt{125} = 5\sqrt{5}$ is not a rational number

$\sqrt{900} = 30$ is a rational number

23. Small bead-like structures inside the ovary of flowers is called:

(1) sepals

(2) petals

(3) stamen

(4) ovules

ANS:23. (4) ovules



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Explanation:

Small bead-like structures inside the ovary of the flower are called ovules. They eventually develop into a seed after fertilization.

Stamen is a flower's male reproductive part.

The sepal is a structure which is leaf-shaped and is found in flowering plants or angiosperms.

Petals are the leaves surrounding the reproductive parts of a flower.

24. Which of the following countries is a permanent member of the United Nations Security Council?

(1) Japan

(2) China

(3) Canada

(4) India

ANS:(2) China

Explanation:

The United Nations Security Council (UNSC) is one of the six principal organs of the United Nations charged with the maintenance of international peace and security.

25. If the denominator of a rational number is of the form $25m$, where n and m are non-negative integers, then what will be the decimal expansion of the number?

(1) Non-terminating and non-recurring



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(2) Non-terminating but recurring

(3) Terminating

(4) Can't be determined

ANS:(3) Terminating

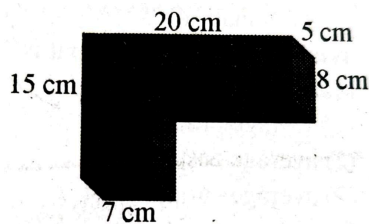
Explanation:

A rational number is terminating if it can be expressed in the form: $p / (2^n \times 5^m)$

The rational number whose denominator is a number that has no other factor than 2 or 5, will terminate the result sooner or later after the decimal point.

∴ The decimal expansion of the number is Terminating

26. What is the total surface area of the visible faces in the given figure?



(1) 384 cm²

(2) 905 cm²

(3) 580 cm²

(4) 1325 cm²



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ANS:(1) 384 cm²

Explanation:

$$\begin{aligned} \text{Total surface area} &= (15 \times 7) + (7 \times 5) + (13 \times 8) + (13 \times 5) + (5 \times 7) + (8 \times 5) \\ &= 105 + 35 + 104 + 65 + 35 + 40 \\ &= 384\text{cm}^2 \end{aligned}$$

27. Which of the following is NOT an input device?

(1) Touch screen

(2) Plotter

(3) Light pen

(4) Track ball

ANS:(2) Plotter

Explanation: Input devices are used to give data and instructions to the computer.

Keyboard and Mouse are the most commonly used input devices.

Other examples of input devices are - Joystick, scanner, Touchscreen, Microphone, Trackball, etc.

The devices which are used to display the results or information are called the Output devices.

Examples of the output devices are - Monitor, Printer, Speaker, Plotter, etc.

28. Land which is left without cultivation for one or less than one agricultural year is known as:



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(1) net sown area

(2) culturable waste land

(3) current fallow

(4) waste land

ANS:(3) current fallow

Explanation:

Current fallow refers to land that has been unused for one or fewer agricultural years.

This type of land has lost its moisture and organic matters which in result the land is left without cultivated.

This land is also known as uncultivated land

29. In a frequency distribution, the mid value of a class is 12 and its width is 6. The lower limit of the class is:

(1) 12

(2) 9

(3) 6

(4) 18

ANS:

Explanation:

$$\text{Lower limit} = \text{Midvalue} - \frac{\text{width}}{2}$$

$$= 12 - \frac{6}{2}$$

$$= 12 - 3$$



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=9

30. Which temple in Thanjavur has Chola architecture and was built by Emperor Rajaraja?

(1) Naganathaswamy Temple

(2) Brihadisvara Temple

(3) Lord Murugan Temple

(4) Thirumananjeri Temple

ANS:(2) Brihadisvara Temple

It is one of the largest Temple in the southern part of India.

Explanation:

Brihadisvaran Temple, also known as Peruvudaiyar Kovil is located in Thanjavur.

It is a Hindu Temple dedicated to Lord Shiva.

It is built between 1003 and 1010 AD by Raja Raja Chola I

It is in the list of UNESCO World Heritage Site. It is also called as Dakshina Meru which simplifies "Meru of South".

31. The ratio of two weights, 27 kg and 108 g. is:

(1) 240 : 1

(2) 270:1

(3) 250 : 1



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(4) 300: 1

ANS:(3) 250 : 1

Explanation:

$$27000 \text{ gm} : 108 \text{ gm} = 250 : 1$$

32. A student required 20% marks to pass in Psychology. He/she secured 10% marks and failed by 20 marks. What is the passing marks?

(1) 40

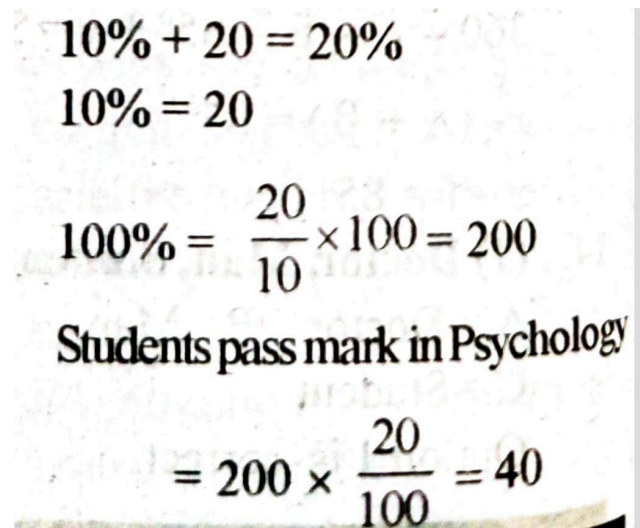
(2) 60

(3) 20

(4) 50

ANS:(1) 40

Explanation:



10% + 20 = 20%

10% = 20

$$100\% = \frac{20}{10} \times 100 = 200$$

Students pass mark in Psychology

$$= 200 \times \frac{20}{100} = 40$$



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33. A shopkeeper incurs a loss of 20% after selling a machine for Rs.4800. In order to gain a profit of 20%, at what price should the shopkeeper sell the same machine?

(1) Rs.7200

(2) Rs.6000

(3) Rs. 6600

(4) Rs. 7500

ANS:(1) Rs.7200

Explanation:

$$4800 \times \frac{100}{80} \times \frac{120}{100} = 7200$$

SP of the machine is Rs.7200

34. Shakila incurs a loss of 10% after selling a machine part for Rs. 540. In order to gain a profit of 10%, at what price should Shakila sell the same part?

(1) Rs. 60

(2) Rs. 550

(3) Rs. 660

(4) Rs. 600

ANS:Rs. 660

Explanation:



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$$540 \times \frac{100}{90} \times \frac{110}{100} = 660$$

SP of the machine part = ₹ 660

35. What is Tamil New Year also known as?

(1) Varusha Pirappu

(2) Ugadi

(3) Bestu Varas

(4) Vishu

ANS:(1) Varusha Pirappu

Explanation:

Tamil people across the world are celebrating New Year as Varusha Pirappu or Puthandu, which is the first day of the Chithirai month.

Varusha Pirappu almost on the same day every year in the Gregorian calendar.

People greet each other saying, 'Puthandu Nalvazthukal' to each on this day, which translates to Happy New Year

36. The value of $\sin(45^\circ+A) - \cos(45^\circ-A)$ is:

(1) $2\cos A$

(2) $2\sin A$

(3) 0



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(4) 1

ANS: 0

Explanation:

$$\sin(45+A) - \cos(90 - (45 - A))$$

$$\sin(45 + A) - \sin(45 + A) = 0$$

37. Who was the Raja of Burdwan when Permanent Settlement was imposed?

(1) Mehtab Chand

(2) Tejchand

(3) Abu Ray

(4) Sangam Rai

ANS:(2) Tejchand

Explanation:

Permanent settlement was introduced by Governor General Lord Cornwallis in 1793. It is also known as permanent settlement of Bengal was an agreement between the British East India Company and the Land lords of Bengal to fix the land revenue.

The Raja of Burdwan's domains had been put up for sale because he had accrued large debts.

In 1797, an auction was held in Burdwan (present-day Bardhaman). A number of palaces (mahalas) of the Raja of Burdwan were up for sale. Many of the bidders at the auction turned out to be Raja's slaves and agents, who had purchased the properties on their master's behalf. Furthermore, nearly 95% of the auction sales were fictional. Although the



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Raja's holdings had been auctioned publicly, he retained control of his zamindari.

38. If the price of a grocery item consumed by a family increases by 25%, then by what percentage should its consumption reduce, so as to keep the expenditure on this item unchanged?

(1) 20%

(2) 25%

(3) 67%

(4) 50%

ANS:(1) 20%

Explanation:

Reduction in consumption =

$$\frac{25}{125} \times 100 = 20\%$$

39. What protects the inner lining of the stomach from the action of acid, under normal conditions?

(1) Enzymes

(2) Gastric Glands

(3) Mucus

(4) Villi

ANS:(3) Mucus



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Explanation:

The stomach consists of a lining of mucus cells which protect the lining of the stomach from the action of hydrochloric acid. Due to the action of HCl on the mucous cells they are destroyed everyday and produced everyh day thus stomach's lining is protected from the action of HCl.

40. Among various electrical safety devices, one based on the heating effect of electric current is called a:

- (1) fuse**
- (2) circuit breaker**
- (3) protective relay**
- (4) surge protector**

ANS: (1) fuse

Explanation:

An electric fuse is a safety device that protects an electrical appliance from damage when it receives excessively current.

A fuse is a wire made of a substance with a low melting point

The wires become heated and melt when a high current travels through the circuit due to overloading or a short circuit.

The circuit is hence broken, and the current ceases to flow.

41. Which of these is NOT a part of capital receipt?

- (1) Disinvestment**
- (2) Borrowing**
- (3) Recovery of loan**



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(4) Tax

ANS: (4) Tax

Explanation:

Capital receipts are the cash received from the sale of fixed assets, cash received from the sale of company shares, and cash received through the issue of a debt instrument, such as loans and bonds.

Capital receipts are government revenues that either generate liabilities (e.g. borrowing) or reduce assets (e.g. disinvestment). A capital receipt occurs when the government raises funds by incurring liability or selling its assets.

Revenue receipts are government receipts that do not increase obligations or deplete assets. These are tax revenues, interest, and dividends on government investments, cess, and other government receipts for services given.

42. Which essential element is used in the synthesis of proteins and other compounds in plants?

(1) Potassium

(2) Magnesium

(3) Nitrogen

(4) Phosphorous

ANS: (3) Nitrogen

Explanation:



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Protein synthesis accounts for a major part of the energy required for plant growth.

In the absence of nitrogen protein synthesis is impossible.

Nitrogen is the element used for protein synthesis and is an essential constituent of amino acids.

Nitrogen is highly abundant (about 78% by volume) in the air, its concentrations in soil, crust rocks, and seawater are relatively low, and the availability of nitrogen is often a limiting factor for plant growth in natural habitats as well as agricultural crop production.

The main forms of inorganic nitrogen in the soil are nitrate and ammonium, which plants absorb from roots

In addition, some plants like leguminous plants can fix atmospheric nitrogen symbiotically in association with nitrogen-fixing soil bacteria, rhizobium.

43. Who was the eighth Secretary-General of the UN?

(1) U Thant

(2) Antonio Guterres

(3) Ban Ki-Moon

(4) Kofi Annan

ANS: (3) Ban Ki-Moon

Explanation:

Ban Ki-moon is a South Korean diplomat who was the eighth Secretary-General of the United Nations from January 2007 to December 2016.



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He has worked to develop bridges and strengthen the Organization by giving voice to the world's poorest and most vulnerable people.

The General Assembly unanimously re-elected him for a second term on June 21, 2011.

Antonio Manuel de Oliveira Guterres is a Portuguese politician who has served as the United Nations' ninth Secretary-General since 2017

44. Who was the first Indian to win the Nobel Prize for literature in 1913?

(1) Humayun Kabir

(2) Bishnu Dey

(3) Rabindranath Tagore

(4) Annadashankar Roy

ANS:(3) Rabindranath Tagore

Explanation:

Rabindranath Tagore was the first Indian writer to win a Nobel Prize in 1913 for his work Gitanjali.

Rabindranath Tagore was born in Kolkata on 7 May 1861. He penned his writings under the name Bhanu Singh Thakur.

'Jana Gana Mana', the National Anthem of India and 'Amar Sonar Bangla', the National Anthem of Bangladesh was composed by him.

Rabindranath Tagore was the first Indian writer to win a Nobel Prize in 1913 for his work Gitanjali.



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Rabindranath Tagore was born in Kolkata on 7 May 1861. He penned his writings under the name Bhanu Singh Thakur.

'Jana Gana Mana', the National Anthem of India and 'Amar Sonar Bangla', the National Anthem of Bangladesh was composed by him.

45. Who is the author of the book 'Shades of Saffron'?

(1) Chidanand Rajghatta

(2) Kamla Bhasin

(3) Saba Naqvi

(4) Arundhati Roy

ANS:(3) Saba Naqvi

Explanation:

This book provides a ringside view of the Bharatiya Janata Party's (BJP) history from its foundation in 1980 to its emergence as India's main political party. When it comes to the Vajpayee years, Naqvi, who has covered the BJP for two decades, is at her best.

The book exposes fascinating facts about the Vajpayee administration's inner workings.

Chapters on 1998 nuclear tests and Govindacharya's 'Vajpayee as mask remark' make for fascinating reading.

46. Total cost per unit of output is known as:

(1) average product

(2) average cost

(3) average variable cost



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(4) average fixed cost

ANS:(2) average cost

Explanation:

Average cost is defined as per unit cost of production which is the ratio of the total cost of production to the total number of units produced.

It can also be defined as the sum of average variable cost and average fixed cost.

47. If in a certain code language, REWARI is coded as TGYCTK, then how is DELHI coded in the same code language?

(1) FGNJK

(2) FGMJK

(3) FGOJK

(4) FGLJK

ANS:(1) FGNJK

Explanation:

R	E	W	A	R	I
+2↓	+2↓	+2↓	+2↓	+2↓	+2↓
T	G	Y	C	T	K
D	E	L	H	I	
+2↓	+2↓	+2↓	+2↓	+2↓	
F	G	N	J	K	



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48. When was the State Re-organisation Commission formed in India?

(1) 1952

(2) 1953

(3) 1951

(4) 1950

ANS: (2) 1953

Explanation:

For the reorganization of state boundaries Central government of India established State Reorganisation Commission (SRC) on 1953.

Fazal Ali, K. M. Panikkar, and H. N. Kunzru were members of the States Reorganisation Commission.

The Commission recommended that India's state boundaries should be reorganized to form 14 states and 6 territories.

49. If $x^2 - 4x + 1 = 0$, what is the 1 value of $x^2 + \frac{1}{x^2}$?

(1) 18

(2) 16

(3) 14

(4) 15

ANS: (3) 14

Explanation:



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$$x^2 - 4x + 1 = 0$$

$$x^2 + 1 = 4x = \text{Dividing by } x$$

$$x + \frac{1}{x} = 4$$

Squaring on both sides.

$$x^2 + \frac{1}{x^2} + 2 = 16$$

$$x^2 + \frac{1}{x^2} = 16 - 2 = 14$$

50. The value of $\frac{2}{5} \times 350 + 30\%$ of 250 is:

(1) 125

(3) 225

(2) 215

(4) 115

ANS: (2) 215

Explanation:

$$\begin{aligned} & \frac{2}{5} \times 350 + 30\% \text{ of } 250 \\ & = 140 + 75 = 215 \end{aligned}$$

51. Anil alone can complete a task in 6 days and Bhushan alone can complete it in 8 days. Anil and Bhushan undertook the task for ₹3,200. With the help of Chaman, they completed the task in 3 days. What is Chaman's share in this earning?



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(1) ₹375

(2) ₹600

(3) ₹400

(4) ₹800

ANS: (3) ₹400

Explanation

Chaman's one day's work

$$= \frac{1}{3} - \left(\frac{1}{6} + \frac{1}{8} \right)$$

$$= \frac{1}{24}$$

Ratio of oneday work of Anil, Bhushan, Chaman

$$= \frac{1}{6} : \frac{1}{8} : \frac{1}{24} = 4 : 3 : 1$$

$$\text{Chaman's share} = 3200 \times \frac{1}{8} = 400$$

52. The given table shows the number of students in a hostel speaking different languages:

Languages	Hindi	English	Marathi	Tamil	Bengali	Total
Number of Students	25	22	12	9	4	72

Which language is spoken by atleast 1 out of 3 students residing in the hostel?



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(1) English

(2) Marathi

(3) Tamil

(4) Hindi

ANS: (4) Hindi

Explanation

Total students = 72

Language spoken by atleast 1
out of 3 students

$$= 72 \times \frac{1}{3} = 24$$

53. Who led the Khilafat Movement?

(1) Abul Kalam Azad

(2) Ali Brothers

(3) Mahatma Gandhi

(4) Muhammad Ali Jinnah

ANS: (2) Ali Brothers

Explanation

The Khilafat Movement was launched by Muhammad Ali and Shaukat Ali. who wanted to develop Muslim participation on behalf of the caliphate Abdul Hamid II, to protect the Ottoman empire from western attack



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At the Calcutta Session of the Congress in September 1920, Gandhi convinced other leaders to start a Non-Cooperation Movement in support of Khilafat Movement.

Its purpose was to pressure the British government to preserve the authority of the Ottoman Sultan as Caliph of Islam following the breakup of the Ottoman Empire

On different political lines, the Khilafat leadership fragmented on February 12, 1922, the whole movement was abruptly called off, at Gandhi's insistence, proceeding the news of the Chauri Chaura incident.

54. Who won the Spanish 'La Liga' title, 2019-20?

(1) Rayo Vallecano

(2) FC Barcelona

(3) SD Huesca

(4) Real Madrid C.F.

ANS: (4) Real Madrid C.F.

Explanation:

Real Madrid C.F. was crowned the La Liga 2019-20 champions after they beat Villarreal 2-1 at the empty Alfredo Di Stefano Stadium.

Karim Benzema (French striker) was the star of the night for Los Blancos as he scored a brace to help them win their 34th Spanish league title.

La Liga is one of the most popular football leagues in the world came into existence in 1929.

Winner 2024-25 - Real Madrid



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55. An airplane is carrying 500 passengers, of which 45% are men and 20% are children. The ratio of the number of men, women and children in the lowest terms is:

(1) 4:7:9

(2) 7:4:9

(3) 9:7:4

(4) 9:4:7

ANS: (3) 9:7:4

Explanation:

Number of men = $500 \times 45\% = 225$

Number of children = $500 \times 20\% = 100$

Number of women = $500 - (225 + 100) = 175$

Men : Women : Children

= $225 : 175 : 100 = 45 : 35 : 20$

= $9 : 7 : 4$

56. Anil and Balbeer can finish a task in 3 days. They started working together, but after 2 days Anil got injured. Balbeer took 2 more days to finish the task. In how many days can Balbeer alone finish the same task?

(1) 10

(2) 9

(3) 5



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(4) 6

ANS: (4) 6

Explanation:

Total work = LCM (2, 3) = 6

Anil and Balbeer's two days

$$\text{work} = \frac{6}{3} \times 2 = 4$$

Remaining work = $6 - 4 = 2$

$$\text{Anil's one day work} = \frac{2}{2} = 1$$

Balbeer's one day's work
= $2 - 1 = 1$

Balbeer alone can finish the

$$\text{work} = \frac{6}{1} = 6 \text{ days}$$

57. How many factors of the number 21600 are perfect squares?

(1) 12

(2) 6

(3) 15

(4) 10

ANS: (1) 12

Explanation:



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$$21600 = 2^2 \times 2^2 \times 2 \times 3^2 \times 3 \times 5^2$$

Perfect squares

$$2^2 = 4 \quad 2^2 \times 5^2 = 100$$

$$3^2 = 9 \quad 3^2 \times 5^2 = 225$$

$$2^2 \times 2^2 = 16 \quad 2^2 \times 2^2 \times 5^2 = 400$$

$$5^2 = 25 \quad 3^2 \times 5^2 \times 2^2 = 900$$

$$2^2 \times 3^2 = 36 \quad 3^2 \times 5^2 \times 2^4 = 3600$$

$$2^2 \times 2^2 \times 3^2 = 144$$

Number of perfect squares = 12

58. Identify the principal organ of the UN which got suspended in 1994?

- (1) Trusteeship Council
- (2) General Assembly
- (3) Security Council
- (4) International Court of Justice

ANS: (1) Trusteeship Council

Explanation:

The Trusteeship Council, one of the main organs of UN, was established to supervise the administration of trust territories as they transitioned from colonies to sovereign nations.

The Council suspended its activities in 1st November 1994, when Palau, the last of the original 11 trust territories gained its independence.



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59.

The value of

$$1 \div \left\{ \frac{1}{2} + \frac{1}{3} + \frac{1}{6} \div \left(\frac{3}{4} - \frac{1}{3} \right) \right\} \text{ is :}$$

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

(2) $\frac{1}{12}$

(3) 1

(4) $\frac{30}{37}$

ANS:

Explanation:

$$= 1 \div \left(\frac{1}{2} + \frac{1}{3} + \frac{1}{6} \div \frac{5}{12} \right)$$

$$= 1 \div \left(\frac{1}{2} + \frac{1}{3} + \frac{1}{6} \times \frac{12}{5} \right)$$

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

$$= 1 \div \left(\frac{15+10+12}{30} \right)$$

$$= 1 \div \frac{37}{30} = \frac{30}{37}$$

60. In a row of students, one student is tenth from either end of the row.
How many students are there in the row?

(1) 20

(2) 22



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(3) 19

(4) 16

ANS:(3) 19

Explanation: $T = m + n - 1 \mid m, n = 10$

$$T = (10 + 10) - 1 = 20 - 1 = 19$$

61. Find the value of $7 + 5 - 2 \times (7 + 89) - 94 \div 2 + (33 \div 3 + 9 \times 2 - 7) \div 1(11)$

(1)-245

(2)-235

(3) 245

(4) -225

ANS: -225

Explanation:

$$7 + 5 - 2 \times 96 - 47 + 22 \div 11$$

$$= 7 + 5 - 192 - 47 - 2 = -225$$

62. The value of $\sin 15^\circ$ is:

(1) $\frac{\sqrt{3}-1}{2\sqrt{2}}$ (2) $\frac{1}{\sqrt{2}}$

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

ANS: (1)



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Explanation:

$$\begin{aligned}\sin 15^\circ &= \sin (45 - 30) \\ &= \sin 45^\circ \cos 30^\circ - \cos 45^\circ \sin 30^\circ \\ &= \frac{1}{\sqrt{2}} \times \frac{\sqrt{3}}{2} - \frac{1}{\sqrt{2}} \times \frac{1}{2} \\ &= \frac{\sqrt{3} - 1}{2\sqrt{2}}\end{aligned}$$

63. Some organisms use simple food material obtained from inorganic sources in the form of carbon dioxide and water. What are these organisms known as?

- (1) Saprophytes
- (2) Autotrophs
- (3) Holozoic
- (4) Heterotrophs

ANS: (2) Autotrophs

Explanation:

Autotrophs are organisms that produce their own food by the process of photosynthesis.

During photosynthesis, these organisms use solar energy and inorganic raw materials such as CO₂ and water to synthesize sugar molecules like glucose.

They are not dependent on other organisms for energy and instead directly obtain it from sunlight.



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They convert an abiotic source of energy (e.g. light) into energy stored in organic compounds, which can be used by other organisms (e.g. heterotrophs).

64. Which port is one of the oldest artificial ports on the eastern coast?

(1) Visakhapatnam Port

(2) Kandla Port

(3) Paradip Port

(4) Chennai Port

ANS: (4) Chennai Port

Explanation:

Chennai port, also known as Madras port, is the oldest artificial port (all weather port with wet docks) in India and the second most important port in the country.

It is the third-oldest port among the 13 major ports of India.

Goods such as automobiles, iron ore, coal, granite, petroleum products, and fertilizers are traded on a large scale at this port.

It is not much suitable for large ships because of the shallow waters near the coast. Tamil Nadu and Puducherry are its hinterland.



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Earlier there were 12 major ports in India but with the addition of Vadhavan Port in Maharashtra, the number of major ports increased to 13

65. The movement for a separate Andhra was called:

- (1) Azad Andhra movement**
- (2) Hamara Andhra movement**
- (3) Telugu Andhra movement**
- (4) Visalandhra movement**

ANS:(4) Visalandhra movement

Explanation:

The Visalandhra Movement was a movement in post-independence India for a united states for all Telugu speakers, a Greater Andhra.

This movement was led by the Communist Party of India under the banner of Andhra Mahasabha with a demand to merge all the Telugu-speaking areas into one state.

The movement succeeded and a separate state of Andhra Pradesh was formed by merging Telugu-speaking areas of Hyderabad State (Telangana) with Andhra State on 1st November 1956 as part of the States Reorganisation Act (Andhra State had been previously carved out of Madras State on 1 October 1953)

66.



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The value of $\sqrt{\frac{36.1}{102.4}}$ is:

(1) $\frac{6.1}{34}$ (2) $\frac{19}{32}$

(3) $\frac{19}{34}$ (4) $\frac{19}{31}$

ANS:(2)

Explanation:

$$\sqrt{\frac{36.1 \times 10}{102.4 \times 10}} = \sqrt{\frac{361}{1024}} = \frac{19}{32}$$

67. In Computer field, What does LIFO stand for?

(1) Last-In-First-Out

(2) Left-In-First-Out

(3) Last-In-Finish-Out

(4) Lost-In-First-Out

ANS:(1) Last-In-First-Out

Explanation:

LIFO is a concept used in computing to manage data structures.

LIFO is a method for handling data structures where the last element is processed first and the first element is processed last.



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This approach simplifies tasks like managing function calls, undo mechanisms, or tracking recent user activities.

Stack is a data structure which work on Last In First out (LIFO) principle

68. What was considered as a symbol of human society that would NOT glorify machines and technology during the Indian National Movement?

(1) Spinning jenny

(2) Charkha

(3) Handloom

(4) Potter's wheel

ANS:(2) Charkha

Explanation:

The charkha, or spinning wheel. It symbolises self. sufficiency and freedom.

Mahatma Gandhi was profoundly critical of the modern age in which machines enslaved humans and displaced labour. He saw the charkha as a symbol of a human society that would not glorify machines and technology.

The spinning wheel, moreover, could provide the poor with supplementary income and make them self-reliant.

The charkha became the symbol of the Swadeshi Movement during the Indian freedom struggle. This is because the spinning of the charkha facilitated the development of the textile industry.

However, the use of charkhas in India can be traced to the 14th Century. We adopted this technology from the Chinese.



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69. The difference between the compound interest and the simple interest on a sum of money at 10% for 2 years (compounded annually) is ₹50.

The sum of money is:

- (1) Rs.5,000
- (2) Rs.4,000
- (3) Rs.2,500
- (4) Rs.4500

ANS:(1) Rs.5,000

Explanation:

$$CI - SI = P \times \left(\frac{R}{100} \right)^2 \text{ for 2 years.}$$
$$P \times \left(\frac{10}{100} \right)^2 = 50$$
$$P \times \frac{1}{100} = 50$$
$$P = 5000$$

70. Who represented the Congress in the second round table conference held in London?

- (1) Mahatma Gandhi
- (2) Jawaharlal Nehru
- (3) Vallabhbhai Patel
- (4) Lal Bahadur Shastri



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ANS:(1) Mahatma Gandhi

Explanation:

The Round Table Conference was a series of conferences held during November 1930-December 1932, to discuss the constitutional reforms of India.

It was organized by the British Government

The second round table conference was held between 7th September and 1st December 1931.

The chief advisor of Gandhiji during second Round Table conference was Madan Mohan Malaviya.

No agreement could be reached on the demand of complete independence and on the communal questions.

Due to the failure of Second Round Table conference Gandhiji resumed Civil Disobedience movement in 1932.

71. The expression 'Aaya Ram, Gaya Ram' became popular in political vocabulary in India to describe:

(1) Jaya Lal

(2) Durgesh Lal

(3) Bipin Lal

(4) Gaya Lal

ANS:(4) Gaya Lal

Explanation:

The term originated in 1967 in Haryana when the Member of the Legislative Assembly Gaya Lal shifted his party allegiances thrice within two weeks.



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Congress leader Rao Birender Singh addressed a press conference in Chandigarh with Gaya Lal by his side and told media, "Gaya Ram ab Aaya Ram hai." The phrase "Gaya Ram Aaya Ram" was picked by the media after Rao Birender Singh's famous one-liner.

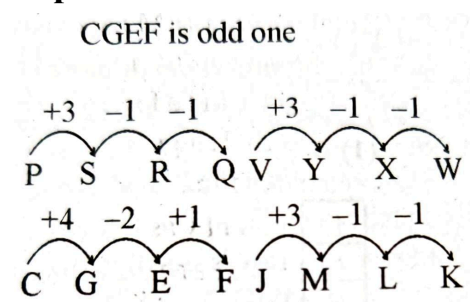
Till date, it is used in Indian politics for leaders who jump ship frequently.

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

- (1) PSRQ
- (2) VYXW
- (3) CGEF
- (4) JMLK

ANS:(3) CGEF

Explanation:



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

Bihar: Jharkhand :: Chattisgarh:

- (1) Maharashtra



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(2) Madhya Pradesh

(3) Ranchi

(4) Raipur

ANS: (2) Madhya Pradesh

Explanation:

Jharkhand is the part of Bihar before year 2000 but from year 2000

Jharkhand separated from Bihar.

Chhattisgarh is related to Madhya Pradesh because in the year 2000

Chhattisgarh separated from Madhya Pradesh

74. If the dimensions of a room are 2 m, 3 m and 4 m, then how many cubes of size $\frac{1}{2}\text{m} \times \frac{1}{3}\text{m} \times \frac{1}{4}\text{m}$ can be placed in the same room?

(1) 676

(2) 760

(3) 576

(4) 672

ANS: (3) 576

Explanation:



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Number of cubes placed in the

$$\text{room} = \frac{\text{Capacity of room}}{\text{Volume of cube}}$$

$$= \frac{2 \times 3 \times 4}{\frac{1}{2} \times \frac{1}{3} \times \frac{1}{4}}$$

$$= \frac{24}{\frac{1}{24}} = 24 \times 24$$

$$= 576 \text{ cubes}$$

75. Which of the following statements is true?

- (1) Every complex number can be expressed in the form of a real number.
- (2) Every integer is natural number.
- (3) Every real number can be written in the complex form.
- (4) Every real number is an integer.

ANS:

Explanation:

- (3) Every real number can be written in the complex form.

76. Which of the following cities has emerged as the most important centre with nearly half the cotton mills of the state located there?

- (1) Madurai
- (2) Bengaluru
- (3) Coimbatore
- (4) Chennai

ANS: (3) Coimbatore

Explanation:

The state of Tamil Nadu has the most mills, with the majority of them producing yarn rather than cloth.



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With over half of the mills located in TamilNadu, Coimbatore has emerged as the most important center.

Other prominent cities include Chennai, Madurai, Tirunelveli, Tuticorin, Thanjavur, Ramanathapuram, and Salem.

77. The exterior angles of any polygon sum up to:

(1) 180°

(2) 90°

(3) 360°

(4) 270°

ANS: (3) 360°

Explanation:

Sum of exterior angle = 360°

78. 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:

(1) All the cars are four-wheelers

(2) All the four-wheelers are vehicles.

Conclusions:

I. All the vehicles are four-wheelers



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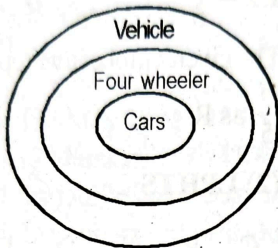


II. All the cars are vehicles

- (1) Only I
- (2) Both I and II
- (3) Only II
- (4) Either I or II

ANS: (3) Only II

Explanation:



Conclusion 1 - false
Conclusion 2 - true

79. Select the number from the given options that can replace the question mark (?) below:

If 243 (222) 317, then 548 (?) 621

- (1) 211
- (2) 209
- (3) 210
- (4) 219

ANS: (4) 219

Explanation:

$$317 - 243 = 74 \times 3 = 222$$



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ANS: (2)

Explanation:

Total students admitted in the college
 $= 300 + 1200 + 1000 + 650 + 450 = 3600$

Total students admitted in arts faculty
 $= \frac{1200}{3600} = \frac{1}{3}$

82. Which of the following Indian mines is one of the world's largest uranium mine?

- (1) Bhatin mine
- (2) Narwapahar mine
- (3) Tummalapalle mine
- (4) Jaduguda mine

ANS: (3) Tummalapalle mine

Explanation:

The Tummalapalle Mine is a uranium mine in Tumalapalli village located in Kadapa of the Indian state of Andhra Pradesh.

Jaduguda is the first mine in the country to produce uranium ore in a commercial scale.

Important uranium mines in India - Jaduguda, Bhatin, Norwapahar, Bagjata, Turamdih, Banduhurang, Mohuldih



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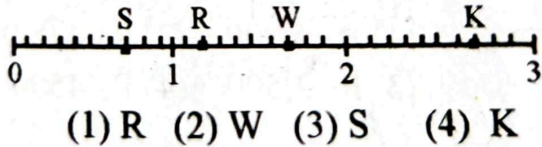


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83. Which point on the given number line represents $\frac{6}{5}$?



ANS: (1)R

Explanation:

R is at 1.2 on the number line

$$1.2 = \frac{6}{5}$$

The given numberline represents

$$\frac{6}{5} \text{ as R.}$$

84. In a certain code language CRUDE is written as BSTED How is MOIST written that language?

(1) NNJRU

(2) LPHTS

(3) LNHRS

(4) NPJTU

ANS: (2) LPHTS

Explanation:



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C R U D E
-1↓ ↓+1↓-1↓ +1↓-1
B S T E D

M O I S T
-1↓ ↓+1↓-1↓ +1↓-1
L P H T S

85. In which part of a neuron is information acquired?

(1) Dendrite

(2) Axon

(3) Cell body

(4) Nerve ending

ANS: (1) Dendrite

Explanation:

The dendrite is the part of the neuron that receives information, while the axon is the component of the neuron that transmits information as an electrical impulse.

The discharge of chemical compounds in to the gap between the axon and the dendrites is how information is transferred from neuron to neuron.

86. Indicating to a woman, a man said, "Her father is the only son of my father." How is the man related to the woman?



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(1) Grandfather

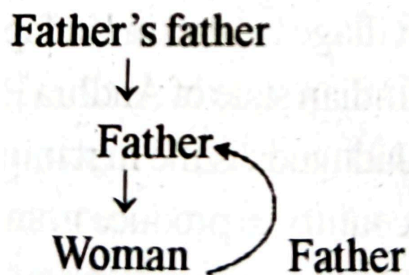
(2) Brother

(3) Son

(4) Father

ANS: (4) Father

Explanation:



87. The given table shows the height (in cm) of 90 plants in a garden::

Height (in cm)	58	61	62	64	65	70
Number of plants	20	25	14	9	12	10

How many plants have heights 41 cm or more, but less than 70 cm?

(1) 62

(2) 60

(3) 65

(4) 58

ANS:(2) 60

Explanation:

Total number of plants whose heights are 61 cm or more



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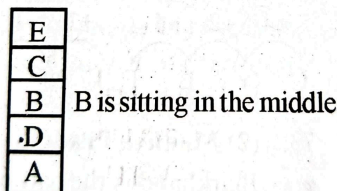
$$= 25+14+9+12=60$$

88. Five persons A, B, C, D and E are sitting one above the other on a ladder (not necessarily in the same order). B is sitting above A with one person sitting between them. Only two persons are sitting between A and C. If C is not sitting at top, then who is sitting in the middle?

- (1) B
- (2) E
- (3) D
- (4) C

ANS:(1) B

Explanation:



89. A team is to be selected from 13 players P1, P2, P3, P4, P5, P6, P7, P8, P9, P10, P11, P12 and P13 There will be seven players in the team. P2 cannot be selected with P1, P6 or P4 P7 cannot be selected with P2, P10, P11 or P13 If P8 and P13 both are selected, then P5 must be selected. P4 cannot be selected with P2, P6, P12 or P11 Which of the following is a correct selection of the team?

- (1) P1, P3, P4, P5, P6, P8, P9
- (2) P1, P3, P4, P5, P8, P9, P13



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(3) P2, P3, P5, P7, P8, P9, P13

(4) P1, P6, P11, P12, P13, P3, P4

ANS:(2) P1, P3, P4, P5, P8, P9, P13

Explanation:

P2 cannot be selected with P1,

P6 or P4

P7 cannot be selected with P2,

P10, P11 or P13

P8 and P5 are both selected, P5

must contain

P4 cannot be selected with P2,

P10, P12, P11

Option 2 follow the above

mentioned condition.

So it is correct.

90. Cariappa, Kargil, Katari, Manekshaw and Subrto are five different sadans in a sanik school. Kargil is to the right of Subrto and Katari is the left of Cariappa and right of Kargil. Subrto is to the right of Manekshaw. Which sadan is in the middle?



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(1) Katari

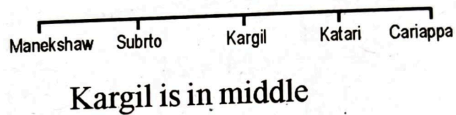
(2) Subrto

(3) Kargil

(4) Cariappa





ANS:(3) Kargil

Explanation:



91.

Select the Venn diagram that best represents the relationship between the given set of classes.
Apple, Mango, Fruits

- (1) 
- (2) 
- (3) 
- (4) 

ANS:

Explanation:



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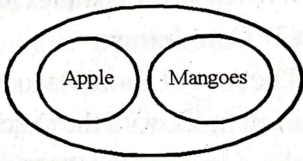
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All apples are fruits.

All mangoes are fruits.

92. A statement is given followed by two arguments. Decide which of the arguments is/are strong with respect to the statement.

Statement:

Life expectancy of Indians is increasing.

Arguments:

I. Yes. People are getting better medical facilities.

II. Yes. People are doing more physical exercises now.

(1) Neither I nor II is strong.

(2) Both arguments I and II are strong.

(3) Only argument II is strong.

(4) Only argument I is strong.

ANS:(2) Both arguments I and II are strong.

Explanation: According to the statement Life expectancy of Indians increasing. Both arguments are strong for the statement.



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93. Select the word from the options which is similar to the given words in a certain manner: Stable, Burrow, Nest

(1) Den

(2) Slum

(3) City

(4) Herd

ANS:(1) Den

Explanation:

Stable, nest, burrow are home of some organisms.

Similarly Den is the home of mammals.

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

22, 23, 26, 27, 30, 31, ?

(1) 33

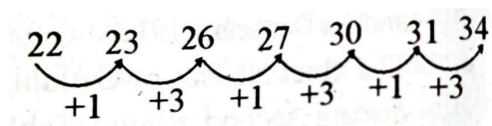
(2) 34

(3) 35

(4) 31

ANS:(2) 34

Explanation:



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95. Select the most appropriate option to fill in the blank.

WSOK ----

(1) L

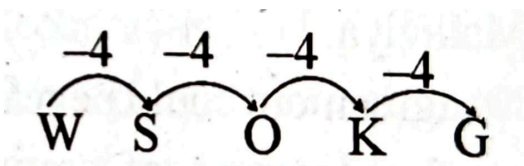
(2) G

(3) H

(4) T

ANS:(2) G

Explanation:



96. The given table shows the number of electric bulbs sold in a shop during a week:

Days	Mon day	Tues day	Wednes day	Thurs day	Friday	Satur day
Number of Bulbs Sold	225	100	150	200	75	90

On which day was the daily sale closest to the average sale for the week?

(1) Saturday

(2) Thursday

(3) Friday



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(4) Wednesday

ANS:(4) Wednesday

Explanation:

Average sale

$$\frac{225+100+150+200+75+90}{6} = 140$$

Sale on Wednesday is closest to the average sale.

97. Arrange the given words in alphabetical order:

A) mild,

B) moderate,

C) severe,

D) profound

(1) A, B, D, C

(2) A, C, B, D

(3) A, B, C, D

(4) A, D, B, C

ANS:(1) A, B, D, C

Explanation:

Mild, Moderate, Profound, Severe



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

(1) 24

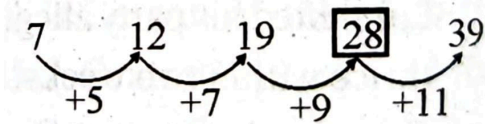
(2) 26

(3) 28

(4) 29

ANS:(3) 28

Explanation:



99. D has a brother A. D is the son of C. B is C's father. In terms of relationship, what is A of B?

(1) Son

(2) Grandfather

(3) Brother

(4) Grandson

ANS:(4) Grandson

Explanation:



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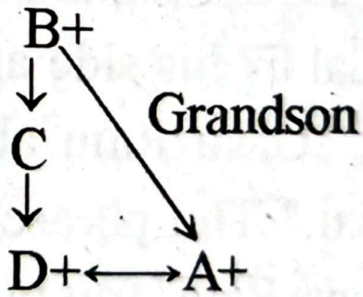
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100. If \times stands for addition, \div stands for subtraction, $+$ stands for multiplication and $-$ stands for division, then

$$10 \times 4 \div 4 - 2 + 1 = ?$$

(1) 40

(2) 12.5

(3) 5

(4) 12

ANS:(4) 12

Explanation:

$$10 + 4 - 4 \div 2 \times 1$$

$$= 10 + 4 - 2 \times 1$$

$$= 14 - 2 = 12$$



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