



RRB NTPC CBT 1

Held on 29-12-2020 Shift 1

1. 6889 students are sitting in such a manner that there are as many students in a row as there are rows. How many rows are there in the auditorium?

(1)73

(2)87

(3)83

(4)77

Ans: (3) 83

Explanation:

Number of rows= $\sqrt{6889} = 83$

2. What is the name of the Societal movement launched by the Union Minister for Environment, forest and climate change?

(1) Green & Clean Deeds

(2) Great Green Deeds

(3) Green Good Deeds

(4) Great Clean Deeds

Ans: (3) Green Good Deeds

Explanation:



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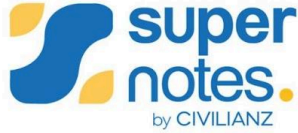
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Green Good Deeds is the societal movement launched by Dr Harsh Vardhan, the Union Minister for Environment, Forest and Climate Change, to protect environment and promote good living in the country.

Formally launched in January 2018.

The Ministry has drawn up a list of over 600 Green Good Deeds and asked people to alter their behaviour to Green Good Behaviour to fulfill their Green Social Responsibility. These small, positive actions, to be performed by individuals or organisation to strengthen the cause of environmental protection have been enlisted. on a mobile App called Dr Harsh Vardhan App

3. Which country leads in the Human Development Index report, 2019?

(1) Norway

(2) Singapore

(3) Switzerland

(4) Australia

Ans: (1) Norway

Explanation:

The Human Development Report (HDR) is released by the United Nations Development Programme (UNDP).It is a statistic composite index of life expectancy, education, and per capita income indicators, which are used to rank countries into four tiers of human development.

The report ranked countries after analysing reduction in absolute poverty, gains in life expectancy, education, and access to health care.



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Norway, Switzerland, Ireland occupied the top three positions in that order.

4. Who is the inspiration behind Saansad Adarsh Gram Yojana?

(1) Lal Bahadur Shastri

(2) Jawaharlal Nehru

(3) Sardar Vallabh Bhai Patel

(4) Mahatma Gandhi

Ans: (4) Mahatma Gandhi

Explanation:

Saansad Adarsh Gram Yojana (SAGY) was launched on 11th October, 2014 with the aim to translate the comprehensive vision of Mahatma Gandhi about an ideal Indian village into a reality, keeping in view the present context.

Under SAGY, each Member of Parliament adopts a Gram Panchayat and guides its holistic progress giving importance for social development at par with infrastructure.

696 GPs have been adopted by MPs across the country so far

5. In an election between Rana and Ranvir. Rana got 40% of the votes and was defeated by 60,000 votes. Find the number of votes polled in favour of Ranvir.

(1) 1,60,000

(2) 1,20,000



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(3) 1,70,000

(4) 1,80,000

Ans: (4) 1,80,000

Explanation:

Let x be total votes,

$$x \times \frac{20}{100} = 60,000$$

$$x = 60000 \times \frac{100}{20} = 300000$$

Number of votes Ranvir

$$\begin{aligned} \text{got} &= 300000 \times \frac{60}{100} \\ &= 1,80,000 \text{ votes} \end{aligned}$$

6. The exile of the ruler of which kingdom was termed as "The life has gone out of the body"?

(1) Awadh

(2) Punjab

(3) Maratha lands

(4) Bengal

Ans: 6. (1) Awadh

Explanation:

The exile of the ruler of Awadh kingdom was termed as "The life has gone out of the body"

Awadh, known in British historical texts as Awadh of Oudh.

Awadh is a region of Uttar Pradesh



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The traditional capital of Awadh was Lucknow, also the station of the British Resident which is now the capital of Uttar Pradesh

7.

Simplify:

$$186-7 \times (63-39) + 25 \div 5$$

(1) 24

(2) 23

(3) 33

(4) 32

Ans: 7. (2) 23

Explanation:

$$186-7 \times 24+5$$

$$=186-168+5$$

$$=18+5=23$$

8. Which of the following is an example of Footloose industry?

(1) Jute

(2) Sugar

(3) Computer chip

(4) Tea



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Ans: (3) Computer chip

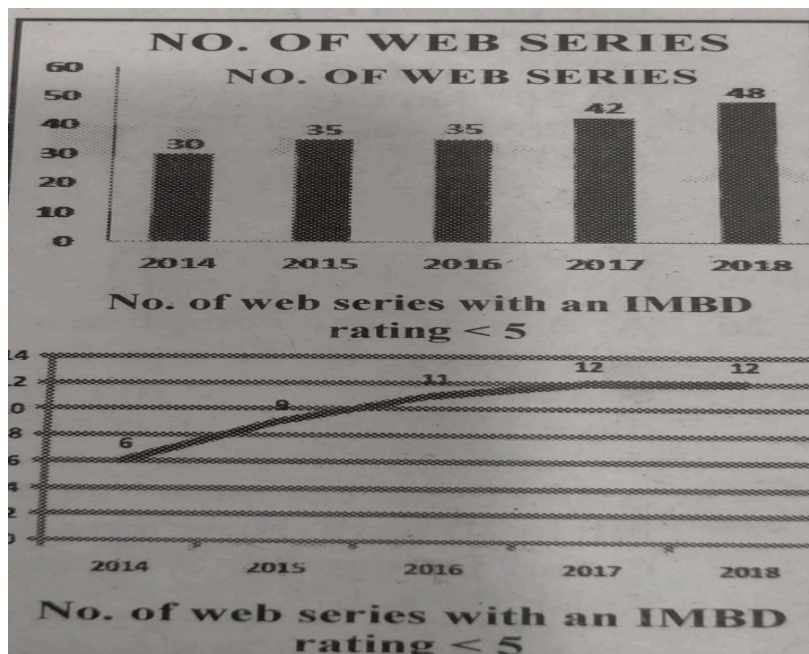
Explanation:

Footloose industry is a general term for an industry that can be placed and located at any location without effect from factors such as resources or transport.

They often involve light manufacturing or service-based activities, such as IT, software development, call centers, and tourism.

The diamond and computer chips belong to the footloose industry.

9. The following bar graph shows the number of web series released by a subscription service mobile application in various years from 2014-2018 and the line graph shows the number of web series with a rating of less than 5 stars. Find the approximate total percentage of web series with a rating 5 star and above from 2014 to 2018.



(1) 74



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(2) 71

(3) 75

(4) 72

Ans: (1) 74

Explanation:

Total webseries from 2014-2018= 30+35+35+ 42+48=190

Total number of webseries with rating 5 star and above

= 190-(6+9+11+12+12)

=190-50=140

Required percentage

$\frac{140}{190} \times 100 = 73.68$

=74%

10. Which is India's first super computer?

(1) Param Biochrome

(2) Param Yuva

(3) Param Padma

(4) Param 8000

Ans: (4) Param 8000

Explanation:

Param 8000 is India's first supercomputer.



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A supercomputer is a computer that performs at or near the currently highest operational rate for computers.

Supercomputers are primarily designed to be used in enterprises and organizations that require massive computing power

11. Select the option that is related to the fourth term in the same way as the first term is related to the second term.

Sun: Earth:: Moon:

(1) Meteoroid

(2) Earth

(3) Comet

(4) Star

Ans: (2) Earth

Explanation:

Earth revolves around sun, similarly moon revolves around earth.

12. What is the name of the book written by Ernest Mackay about excavations? archaeological

(1) Archaeology of Mohenjo-daro

(2) Deeper Excavations at Mohenjo-daro

(3) Early Indus Civilisation

(4) Further Excavations at Mohenjo-daro



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Ans: 12. (4) Further Excavations at Mohenjo-daro

Explanation:

Further excavations at Mohenjo-Daro's is the name of the book written by Ernest Mackey about archeological excavations.

The book was published in 1934

Other books written by Ernest Mackey includes " Chanhu-Daro excavation, Indus Civilization

13. 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 chocolates are candies.

2: All candies are toffees.

Conclusions:

1: All chocolates are toffees.

2: All toffees are chocolates

(1) Only conclusion 1 follows.

(2) Both conclusion 1 and conclusion 2 follow.

(3) Only conclusion 2 follows.



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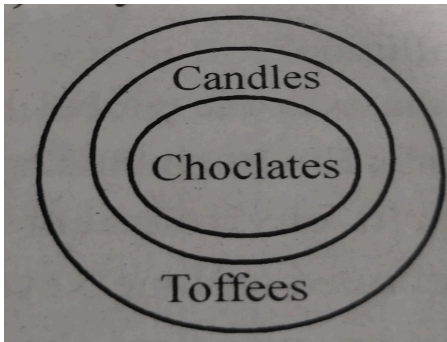
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(4) Neither conclusion 1 nor conclusion 2 follows.

Ans: (1) Only conclusion 1 follows

Explanation:



All Chocolates are Toffees ✓

All Toffees are Chocolate x

∴ Only conclusion I follows

14. Robert Hooke discovered -----

(1) Protoplasm

(2) Nucleus

(3) Cell

(4) Atom

Ans: (3) Cell

Explanation:

Robert Hooke coined the term cell and discovered it in 1665

Hooke detailed many of his observations in his 1665 book "Micrographia,"



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The barometer invented by Hooke was the wheel barometer, which was used to measure the air's atmospheric pressure.

He discovered the law of elasticity known as Hook's law

15. If the ratio of mean and median of a certain data is 4: 5, then find the ratio of its mean and mode.

(1) 5:4

(2) 5:7

(3) 3:7

(4) 4:7

Ans: (4)4:7

Explanation:

Mean = 4x, Median = 5x

Mode= 3 Median - 2 Mean

15x - 8x = 7x

$$\frac{\text{mean}}{\text{mode}} = \frac{4x}{7x} = 4:7$$

16. People with which of the following blood groups are considered as universal recipient?

(1) B+



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(2) AB+

(3) A+

(4) O+

Ans: (2) AB+

Explanation:

The universal recipient blood type is AB positive (AB+), and the universal donor blood type is O negative (O-).

People who are AB+ can safely receive a blood transfusion of any other blood type, while O-blood can be safely given to someone of any blood type.

Recipient Blood Type	Donor Blood Type
A+	A+, A-, O+, O-
A-	A-, O-
B+	B+, B-, O+, O-
B-	B-, O-
AB+	Any blood type
AB-	AB-, A-, B-, O-
O+	O+, O-
O-	O-

Only about 7% of people are O-

O- blood bank donations are in high demand because this type is used most often for those in need of a transfusion



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17. Find the sum of all the numbers between 100 and 200 which are divisible by 12.

(1) 1600

(2) 1400

Ans: (4) 1200

Explanation:

$$\begin{aligned} N &= \frac{t_n - t_1}{d} + 1 \\ &= \frac{192 - 108}{12} + 1 \\ &= 8 \end{aligned}$$

$$\begin{aligned} S_n &= \frac{n}{2} [t_n + t_1] \\ &= \frac{8}{2} [192 + 108] \\ &= 4 \times 300 = 1200 \end{aligned}$$

18. If $\sqrt{4624}=68$, then the value of:

$$\sqrt{46.24} + \sqrt{0.4624} + \sqrt{0.004624}$$

(1) 7.648

(2) 7.548



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(3) 7.854

(4) 7.458

Ans: (2) 7.548

Explanation:

$$\sqrt{46.24} + \sqrt{0.4624} + \sqrt{0.004624} = 6.8 + 0.68 + 0.068$$
$$= 7.548$$

19. Which of the following Viceroy of India did take the initiative to create elected local government bodies?

(1) Lord Reading

(2) Lord Wavell

(3) Lord Irwin

(4) Lord Rippon

Ans: (4) Lord Rippon

Explanation:

Elected local government bodies were created after 1882. Lord Rippon who was the viceroy of India at that time took the initiative in creating local bodies.

By govt of India act 1919 village panchayats were established in several provinces and this trend continued after the Govt of india act of 1935.

LORD RIPPON (1880-1884)



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Repeal of the Vernacular the press Act (1882)

The First Factory Act (1881)

Government resolution on local self government (1882)

The Ilbert Bill controversy Hunter Commission on Education (1882)

20. The train fare, bus fare and air fare between 2 places are in the ratio 5: 8: 12, the number of passengers travelled by them is in the ratio 3:4:5 and the total fare collected on a particular day for these modes of transportation for a single trip is 1,07,000. Find the total fare collected from the airpassengers.

(1) ₹80,000

(2) ₹60,000

(3) ₹70,000

(4) ₹65,000

Ans: (2) ₹60,000

Explanation:

$$(5 \times 3) x + (8 \times 4) x + (12 \times$$

$$5) x = 107000$$

$$(15 + 32 + 60) x = 107000$$

$$107x = 107000$$

$$x = 1000$$



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**Total fare collected from air Passengers = $12 \times 5 \times 1000$
= ₹ 60,000**

21. . Bile is secreted by the

(1) pancreas

(2) liver

(3) stomach

(4) gall bladder

Ans: 21. (2) liver

Explanation:

Bile is a dark green colour fluid secreted by liver

Bile helps in digestion process. It breaks down fats into fatty acids, which can be taken into the body by the digestive tract.

It consists of 85% water, 10% bile salts and pigments and some amount of cholesterol.

It is alkaline in nature as the pH is around 7.8-8.6.

22. Chemical formula for Lime water is

(1) CaCl

(2) CaCO,

(3) Ca(OH)



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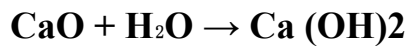
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(4) CaOH

Ans: (3) Ca (OH) 2

Explanation:

Limewater is produced by the reaction between quicklime and water



Limewater is the common name for a saturated solution of calcium hydroxide

Mainly calcium carbonate dissociates to produce quicklime and carbondioxide. Then the quicklime reacts with water and produce lime water

Calcium hydroxide is used in many applications, including sewage treatment, paper production, construction, and food processing.

23. Evaluate:

$$\cos 20^\circ \cos 40^\circ \cos 80^\circ$$

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

(2) $\frac{1}{32}$

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



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

Explanation:

$$\begin{aligned} & \cos\theta \cos(60^\circ - \theta) \cos(60^\circ + \theta) \\ &= \frac{1}{4} \cos 3\theta \end{aligned}$$

Here, $\theta = 20^\circ$

$$\begin{aligned} & \cos 20^\circ \cos(60^\circ - 20^\circ) \cos \\ & (60^\circ + 20^\circ) = \frac{1}{4} \cos 3 \times 20^\circ \\ &= \frac{1}{4} \cos 60^\circ \\ &= \frac{1}{4} \times \frac{1}{2} = \frac{1}{8} \end{aligned}$$

24. On which date is the Constitution Day of India celebrated?

(1) 14th April

(2) 15th August

(3) 26th January

(4) 26th November

Ans: (4) 26th November

Explanation:



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26 November is celebrated every year as Constitution Day also known as 'Samvidhan Divas'.

On 26 November, 1949 the Constitution of India was adopted and enforced on 26 January, 1950.

The activities aimed to reiterate the Indians towards the principle values expressed in the Indian Constitution and encourage the citizens to play their rightful role in strengthening the Indian Democracy.

The celebration also aims to create awareness about Fundamental Duties as enshrined in the Indian Constitution

25.

If $1^2 + 2^2 + 3^2 + \dots + 14^2 = 1015$,
then $3^2 + 6^2 + 9^2 + \dots + 42^2$ is
equal to:

(1) 9135

(2) 9325

(3) 9235

(4) 9315

Explanation:

$$1^2 + 2^2 + 3^2 + \dots + 14^2 = 1015$$

Multiply by 9 on both sides



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$$9 \times 1^2 + 9 \times 2^2 + 9 \times 3^2 + \dots + 9 \times 14^2 = 9 \times 1015$$

$$3^2 \times 1^2 + 3^2 \times 2^2 + 3^2 \times 3^2 + \dots + 3^2 \times 14^2 = 9135$$

$$3^2 + 6^2 + 9^2 + \dots + 42^2 = 9135$$

26. A, B and C can complete a job in 5 days. B, C and D can complete the same job in 10 days. C, D and A can complete the same job in 15 days and D, A and B can complete the same job in 30 days. How long A, B, C and D together will take to finish the job?

(1) 8 days

(2) $8 \frac{1}{2}$ days

(3) $7 \frac{1}{2}$ days

(4) 7 days

Ans:



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$$A + B + C = \frac{1}{5}$$

$$B + C + D = \frac{1}{10}$$

$$C + D + A = \frac{1}{15}$$

$$D + A + B = \frac{1}{30}$$

Adding above equations

$$3(A + B + C + D) = \frac{12}{30}$$

$$A + B + C + D = \frac{2}{15}$$

A, B, C, D finish the job in

$$\frac{15}{2} = 7\frac{1}{2} \text{ days}$$

27. The focus of World Environment Day. 2018 was on -----

(1) Air Pollution

(2) Plastic pollution

(3) Water pollution

(4) Soil Pollution

Ans: (2) Plastic pollution

Explanation



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The 45th celebration of World Environment Day was under the theme "Beat Plastic Pollution".

India was the global host of World Environment Day 2018.

World environment day is celebrated on June 5 every year

This day was first observed in 1973

28. Which African country launched the first Malaria vaccine to immunise children on the occasion of World Malaria Day?

(1) Kenya

(2) Ghana

(3) Nairobi

(4) Malawi

Ans: (4) Malawi

Explanation:

Malawi launched the world's first malaria vaccine to immunize children.

The vaccine was launched on the occasion of world malaria day (observed on 25th April)

It was launched as a part of a pilot program aimed at immunizing the children aged upto 2 years in three African countries Malawi, Ghana, and Kenya

The name of the malaria vaccine was launched in Malawi as Mosquirix



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The vaccine is recombinant protein - based malaria vaccine

29. Simplify $24 \div 7.2 \div 8 - 3 \times 2.3 + 5$

1) 23

(2) 18

(3) 32

(4) 26

Ans: 1) 23

Explanation:

$$\begin{aligned} & 24 + 7.2 \div 8 - 3 \times 2.3 + 5 \\ & = 24 + 0.9 - 6.9 + 5 \\ & = 24.9 - 6.9 + 5 \\ & = 18 + 5 \\ & = 23 \end{aligned}$$

30. Who formed the Indian National Congress?

(1) Dadabhai Naoroji

(2) A.O Hume

(3) Pherozeshah Mehta

(4) WC Banerjee

Ans: (2) A.O Hume

Explanation:

INC was formed by Allan Octavian Hume (a retired English servant).



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On December 28, 1885, the Indian National Congress was officially founded during a momentous session at Gokuldas Tejpal Sanskrit College in Bombay.

Womesh Chandra Banerjee presided over the inaugural session, uniting 72 delegates representing diverse regions and communities across India.

The session of INC is held at the gap of 1 year

31. From the top of a cliff 25 m high, the angle of elevation of the top of a tower is found to be equal to the angle of depression of the foot of the tower. Find the height of the tower.

(1) 40 m

(2) 60 m

(3) 30 m

(4) 50 m

Ans: (4) 50 m



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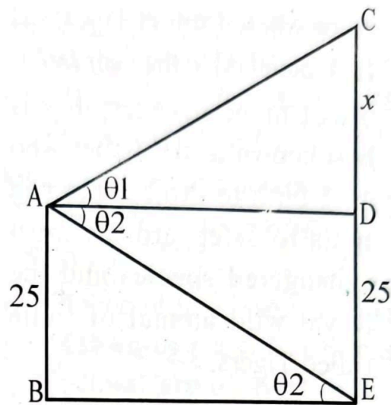
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Given $\theta_1 = \theta_2$

$$\tan \theta_1 = \frac{CD}{AD}$$

$$\tan \theta_2 = \frac{25}{BE}$$

$$\frac{CD}{AD} = \frac{25}{BE} \text{ Since } (AD = BE),$$

$$CD = 25$$

$$\text{Height of tower} = 25 + 25 = 50 \text{ m}$$

32. What is the name of the skill development programme of the Government of India?

- (1) Atal Kaushal Vikas Yojana**
- (2) Mahatma Gandhi Kaushal Yojana**
- (3) National Skill Development Corporation**
- (4) Pradhan Mantri Kaushal Vikas Yojana**

Ans: (4) Pradhan Mantri Kaushal Vikas Yojana



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Explanation:

Pradhan Mantri Kaushal Vikas Yojana (PMKVY) was launched in 2015 to encourage and promote skill development in the country by providing free short duration skill training.

The overall idea is to boost both industry and employability of youths.

During its pilot phase in 2015-16, 19.85 lakh candidates were trained.

After the successful implementation of pilot PMKVY (2015-16), PMKVY (2016-20) was launched by scaling up both in terms of Sector and Geography and by greater alignment with other missions of Government of India like Make in India, Digital India, Swachh Bharat, etc.

33.. Who painted "In memorium", a painting dedicated to the British ladies in India during the mutiny of 1857?

- (1) Felice Beato**
- (2) Thomas Jones Barker**
- (3) John Tenniel**
- (4) Joseph Noel Paton**

Ans: (4) Joseph Noel Paton

Explanation:

"In Memorium" is a painting dedicated to the British ladies in India during the mutiny of 1857.

Joseph Noel Paton painted "In Memorium"



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Sir Joseph Noel Paton FRSA was a Scottish artist, illustrator, and sculptor. He was also a poet and had an interest and knowledge of Scottish folklore and Celtic legends.

Some other important works of Joseph Noel Paton:

1. Hesperus (1857)

2. Home (1855-56)

3. How an Angel Rowed Sir Galahad Across the Dern Mere (1888)

4. Oberon and the Mermaid (1888)

34. If A: B=15: 16, B: C = 8:25, C:D=20: 9, then find A:D.

(1) 3:2

(2) 4:3

(3)3:4

(4) 2:3

Ans:(4) 2:3

Explanation:



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$$\frac{A}{B} = \frac{15}{16}, \frac{B}{C} = \frac{8}{25}, \frac{C}{D} = \frac{20}{9}$$

$$\frac{A}{B} \times \frac{B}{C} \times \frac{C}{D} = \frac{15}{16} \times \frac{8}{25} \times \frac{20}{9}$$

$$\frac{A}{D} = \frac{2}{3}, A : D = 2 : 3$$

35.

If $x^3 + y^3 = 35$, $x + y = 5$, find the value of: $x^4 + y^4$

(1) 79

(2) 97

(3) 98

(4) 87

Ans: (2) 97

Explanation:



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$$x + y = 5$$

$$x = 2 \text{ and } y = 3$$

$$2^3 + 3^3 = 35$$

$$2^4 + 3^4 = 97$$

36. Choose the word-pair that is different from the other three.

(1) Lethargic: Laid back

(2) Melancholy: Gloomy

(3) Dynamic: Robust

(4) Negligent: Attentive

ans:(4) Negligent: Attentive

Explanation:

Melancholy: Gloomy

Melancholy means a feeling of sadness that lasts for a long time. Both the words are synonyms of each other.

Negligent: Attentive

Negligent means not being careful. Attentive means watching, listening to or thinking about somebody/something carefully. Both the words are antonyms of each other.

Dynamic: Robust



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Dynamic means full of energy and ideas. Robust is the synonym of Dynamic.

Lethargic: Laidback

Lethargic means having little energy; feeling unwilling and unable to do anything. Laidback is the synonym of Lethargic.

Hence, 'Negligent: Attentive' is the odd one out.

37. Which of the following is a tiger reserve?

- (1) Jim Corbett National park**
- (2) Gir Wildlife Sanctuary**
- (3) Kedarnath Wildlife Sanctuary**
- (4) Great Himalayan National park**

ans:(1) Jim Corbett National park

Explanation:

The Jim Corbett National Park is a part of the largest Corbett Tiger Reserve; the Project Tiger lies in the Nainital district of Uttarakhand.

The Majestic landscape of Corbett is well-known for its tiger richness.

It is being honoured as the place where Project Tiger was first launched in the year 1973.



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This Unique tiger territory is best known as the father who gave birth to Project Tiger in India to safeguard the most endangered species and the Royal wild animal of India called Tigers.

38. Which is not a web browser from the following?

(1) Google

(2) Safari

(3) Mozilla Firefox

(4) Opera

ans:(1) Google

Explanation:

A search engine is a kind of website through which users can search the content available on the Internet.

For this purpose, users enter the desired keywords into the search field then the search engine looks through its index for relevant web pages and displays them in the form of a list

Some of the popular ones are Google, Bing, Yahoo, Duckduckgo, Baidu etc

The web browser is an example of application software that is developed to retrieve and view the information from web pages or HTML files present on the web servers.

The first web browser was Occurs invented by Sir Tim Berners-Lee in 1990 and the very first graphical web browser was developed in 1993 and is named the mosaic.



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Microsoft Edge, Google Chrome, Mozilla Firefox, Opera, and Apple safari are examples of web browsers.

39. Excessive curvature of eye lens leads to

(1) hypermetropia

(2) cataract

(3) colour blindness

(4) myopia

Ans: (4) myopia

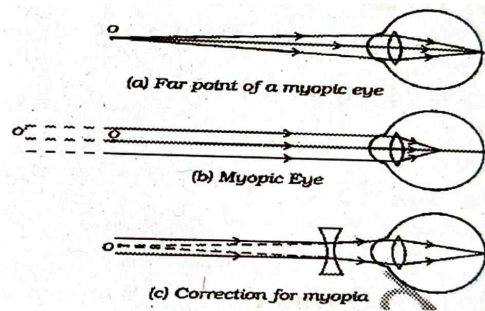
Explanation:

Myopia is also known as near sightedness.

A person with myopia can see nearby objects clearly but cannot see distant objects distinctly.

A person with this defect has the far point nearer than infinity because the image of a distant object is formed in front of the retina and not at the retina itself.

This defect may arise due to (i) excessive curvature of the eye lens, or (ii) elongation of the eyeball. This defect can be corrected by using a concave lens of suitable power.



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40. The value of a desktop computer depreciates at the rate of 20% every year. It was purchased 3 years ago. If its present value is Rs. 12,288. what was its purchase price 3 years ago ?

- (1) Rs. 24,000
- (2) Rs. 24,750
- (3) Rs. 23,750
- (4) Rs. 24,250

Ans:(1) Rs. 24,000

Explanation:

$$A = P \left(1 - \frac{r}{100} \right)^n$$

$$\Rightarrow 12288 = P \left(1 - \frac{20}{100} \right)^3$$

$$\Rightarrow 12288 = P \left(\frac{4}{5} \right)^3$$

$$\Rightarrow P = \frac{12288 \times 5 \times 5 \times 5}{4 \times 4 \times 4}$$

$$= \text{Rs. } 24000$$

41. ABCD is a square. X is the mid-point of AB. Y is a point on BC such that $BY = \frac{1}{3}BC$. If the area of $\triangle BXY$ is equal to 300 cm^2 , find length of diagonal AC.

- (1) $50\sqrt{2} \text{ cm}$
- (2) $60\sqrt{2} \text{ cm}$



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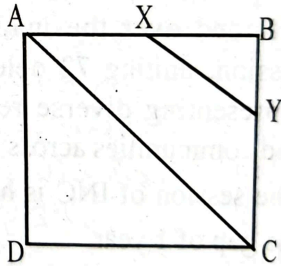
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(3) 60 cm

(4) 50 cm

Ans; (2) $60\sqrt{2}$ cm

Explanation:



Area of $\triangle BXY$

$$= \frac{1}{2} \times BX \times BY$$

$$= \frac{1}{2} \times \frac{AB}{2} \times \frac{BC}{3}$$

$$= \frac{1}{12} AB \times BC$$

$$300 = \frac{1}{12} \times (AB)^2$$

$$AB = \sqrt{3600} = 60 \text{ cm}$$

If side is 'a'

$$\text{Length of diagonal} = a\sqrt{2}$$

Length of Diagonal,

$$AC = 60\sqrt{2}$$

42. The total cost of flooring a room at 12.50 per m^2 is 3,675. If the breadth and length are in the ratio 2: 3, find its length.

(1) 21 m

(2) 15 m

(3) 14 m



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(4) 18 m

Ans (1) 21 m

Explanation:

$$(2x \times 3x) \times 12.50 = 3675$$

$$6x^2 \times 12.50 = 3675$$

$$x^2 = \frac{3675}{6 \times 12.50} = 49$$

$$x = 7$$

$$\text{Length} = 3 \times 7 = 21 \text{ m}$$

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

Cat: Feline :: Dog:?

(1) Bovine

(2) Equine

(3) Canine

(4) Ursine

Ans (3) Canine

Explanation:

Cat belongs to feline family similarly Dog belongs to Canine family

44. Find the sum of the greatest 3-digit number and the smallest 4-digit number that have 24 as their HCF.



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(1) 1998

(2) 1992

(3) 1996

(4) 1892

Ans (2) 1992

Explanation:

Greatest 3 digit number divisible by 24 = 984

Smallest 4 digit number divisible by 24 = 1008

Sum = 1008+984 - 1992

45. Which of the following is the highest peak in India?

(1) Kamet

(2) Anamudi

(3) Mt. Everest

(4) Kanchanjunga

Ans: (4) Kanchanjunga

Explanation:

Kanchenjunga is considered to be the highest mountain peak in India.



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It is India's highest and world's 3rd highest mountain with an altitude of 8,586 m (28,169 ft).

This highest mountain peak of India is located at the border of India and Nepal in the great Himalayan range near the state of Sikkim, India.

The Kangchenjunga mountain section contains a total of five peaks

Three of five peaks which are known as main, southern and central are on the border of • North Sikkim one of the district of Sikkim. The other two peaks are entirely on the Nepal side in the Taplejung District.

46. Which session of the congress gave a call to the attainment of 'Swaraj'?

(1) 1904

(2) 1902

(3) 1909

(4) 1906

Ans:(4) 1906

Explanation:

In the Calcutta session congress adopted Swaraj as the Goal of the Indian people.

The session was on 1906

It was under the leadership of Dadabhai Naoroji.

47. Ruhr region is the most important industrial region of

(1) France



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(2) Germany

(3) Denmark

(4) Hungary

Ans:(2) Germany

Explanation:

Ruhr region is the most important industrial region of Germany.

The Ruhr also referred to as Ruhr area, Ruhr district, Ruhr region, or Ruhr valley, is a polycentric urban area in North Rhine-Westphalia, Germany.

The Ruhr area has no administrative center each city in the area has its own administration.

48. Who has been appointed as the Governor of the state of Telangana in Sept, 2019?

(1) Tamilisai Soundararajan

(2) Jagdish Mukhi

(3) Lalji Tandon

(4) OP Kohli

Ans:(1) Tamilisai Soundararajan

Explanation:



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Senior BJP leader from Tamil Nadu Tamilisai Soundararajan has been appointed as the new Governor of Telangana on 2019 september

Dr. Soundararajan replaces Governor E.S.L. Narasimhan who has been continuing in the post since past nine years.

She became the 2nd Governor of new state of Telangana and first woman Governor of Telangana.

49. Which famous author used the pen name Madhavikutty?

(1) Balamani Amma

(2) Toru Dutt

(3) Kamala Das

(4) Nayantara Sehgal

Ans:(3) Kamala Das

Explanation:

Kamala Das a renowned malayali writer is popularly known by her one-time pen name Madhavikutty.

Her popularity in Kerala is based chiefly on her short stories and autobiography.

Some awards of Kamala Das:

2002: Ezhuthachan Award

2006: Muttathu Varkey Award



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Books written by Kamala Das:

1976: Alphabet of Lust

2005: Vandikkalakai (novel)

1996: Aattukattil (short novel)

50. Bella is taller than Shubham. Umesh is taller than Shubham but shorter than Bella. Salman is shorter than Rahul and Shubham. Shubham is taller than Rahul. Who is the shortest in the group?

(1) Salman

(2) Umesh

(3) Bella

(4) Rahul

Ans:(1) Salman

Explanation:

Salman < Rahul < Shubham < Umesh Bella.

Salman is Shortest

51. Select the option that will fill in the blank and complete the given series.

ABCD, ACEG, AEIM.

(1) ADGJ

(2) AFJN

(3) ADIN



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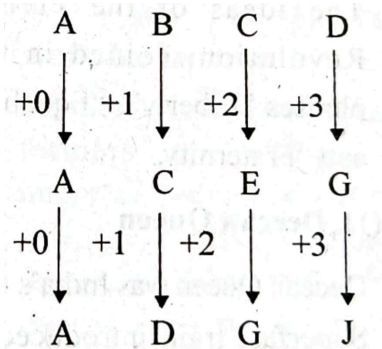


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(4) ABEG

Ans:(1) ADGJ

Explanation:



52. A, B and C can complete a job in 40 days, 60 days and 80 days respectively. All the three worked together but A left 11 days and B left 8 days before the completion of work. In how many days, the entire work will be completed?

(1) 28 days

(2) 24 days

(3) 30 days

(4) 26 days

Ans:(4) 26 days

Explanation:



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Let x be the number of days in which work will be completed.

$$\frac{x-11}{40} + \frac{x-8}{60} + \frac{x}{80} = 1$$

$$6x - 66 + 4x - 32 + 3x = 240$$

$$x = 26$$

53. . As of Nov 2020, who is the Secretary General of the United Nations?

- (1) Kofi Annan
- (2) Maria Fernanda Espinosa Garcez
- (3) Ban ki-Moon
- (4) Antonio Guterres

Ans:(4) Antonio Guterres

Explanation:

Antonio Guterres is the current Secretary-General of the United Nations.

He is the ninth Secretary-General, his term began 1 January 2017.

Prior to his appointment as Secretary-General, Mr. Guterres served as 'United Nations High Commissioner for Refugees' from June 2005 to December 2015.

54. In the Indian Constitution, from which country were the concepts of liberty, equality and fraternity adopted?

- (1) Britain
- (2) France



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(3) USSR

(4) Japan

Ans: (2) France

The ideas of Liberty, Equality and Fraternity (contained in the Preamble of the Constitution of India) is borrowed from France.

The ideas of the French Revolution, coined in the phrases "Liberty", "Equality" and "Fraternity."

55. Name India's first Superfast train.

(1) Deccan Queen

(2) Duronto

(3) Shatabdi

(4) Rajdhani Express

Ans:(1) Deccan Queen

Explanation:

Deccan Queen was India's first Superfast train introduced in 1930

The Deccan Queen is a daily Indian passenger train service operated by the Central Railway zone of the Indian Railways.

It connects the cities of Mumbai and Pune

56.



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Simplify:

$$62 \div 5 - \left(\frac{8}{9} \times \frac{18}{7} \right) \times \frac{7}{5} + \frac{5}{4} \times \frac{16}{25}$$

(1) 12

(2) 15

(3) 5

(4) 10

Ans:(4) 10

Explanation:

$$\frac{62}{5} - \left(\frac{8}{9} \times \frac{18}{7} \right) \times \frac{7}{5} + \frac{5}{4} \times \frac{16}{25}$$

$$= \frac{62}{5} - \frac{16}{5} + \frac{4}{5}$$

$$= \frac{50}{5} = 10$$

57. There are five people A, B, C, D and E at a party, among whom there are two couples. They are employed as a teacher, a doctor, a lawyer, an accountant and an engineer, though not in the same order. The engineer is married to the teacher and C is the unmarried lawyer. D is an accountant. The teacher B is a female whose female friend is the accountant. Find which of the following could be true.

(1) E is a teacher.

(2) A is an engineer.

(3) D is a male.



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(4) B is a doctor.

Ans:(2) A is an engineer.

Explanation:

$A^+ (\text{Engineer}) \overset{X}{\Leftrightarrow} B^- (\text{Teacher})$

C is unmarried Lawyer

D is an Accountant

\therefore A is an Engineer

58. With the abdication of the throne by the Japanese Emperor, Akihito, the new Imperial era in Japan is known as

(1) Showa

(2) Reiwa

(3) Edo

(4) Heisei

Ans:(2) Reiwa

Explanation:

The 2019 Japanese imperial transition occurred on 30 April 2019 when the then 85-year-old Emperor Akihito of Japan abdicated from the Chrysan-themum Throne.

Japan has revealed the name of its next imperial era to be "Reiwa," set to begin May 1 as Crown Prince Naruhito is expected to take the throne.

Yoshihide Suga, Japan's chief cabinet secretary, announced the name



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59. Ram is the brother of Shyam and Mahesh is the father of Ram. Jagat is the brother of Priya and Priya is the daughter of Shyam. How is Mahesh related to Jagat?

(1) Uncle

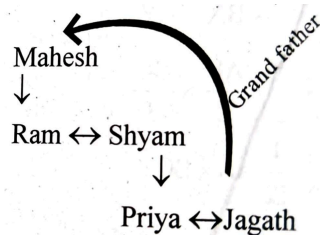
(2) Brother

(3) Father

(4) Grandfather

Ans:(4) Grandfather

Explanation:



60. When was the Sanchi Stupa declared a world heritage site by UNESCO?

(1) 1990

(2) 1987

(3) 1989

(4) 1988

Ans:(3) 1989

Explanation:

Sanchi stupa was tagged as world heritage site by UNESCO in 1989.



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Sanchi stupa was built during Emperor Ashoka's reign.

It is one of the greatest Buddhist monuments.

This stupa is located in Sanchi town of Madhya Pradesh.

61. In Aug 2020, who was selected as the next Chairman of Steel Authority of India Limited?

(1) Saraswati Prasad

(2) Soma Mondal

(3) Dr. G Vishwakarma

(4) Sunil Kumar

ans:(2) Soma Mondal

Explanation:

Soma Mondal has been selected by the Public Enterprises Selection Board (PESB) as the next chairman of public sector steel major Steel Authority of India Limited in 2020. She is the first woman chairman of the company.

At present

Amarendu Prakash is the current chairman of Steel Authority of India Limited (SAIL)

-

He took change on 31 May 2023.



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-Prior to taking charge as the Chairman, Amarendu Prakash held the post of Director-in-charge of Bokaro Steel Plant (BSL), SAIL,

He succeeded Soma Mondal who retired from the post on April 30, 2023.

62. Seven chocolates A, B, C, D, E, F and G are bought at different costs between ₹40 and ₹50 (excluding 40 and 50) but not necessarily in the same order. The cost of chocolate C is five less than that of chocolate E. The cost of the chocolate A is a prime number. The cost of chocolate F is two 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 three more than the cost of chocolate D. None of the chocolates costs ₹44. The cost of chocolate B is an even number. Which of the following chocolates is costlier than E?

(1) C

(2) B

(3) G

(4) D

ans:(3) G

Explanation:

Chocolates	Costs
A	41, 43 or 47
B	
C	43, 42 or 41
D	
E	48, 47 or 46
F	43, 45 or 49
G	



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Chocolates	Costs
A	47
B	42
C	41
D	45
E	46
F	49
G	48

$$F > E$$

$$D = \text{Odd}$$

$$G = D + 3$$

$$\text{Cost of Chocolate E} = 46$$

$$\text{Out of Option G} > E$$

63. If '@' indicates either '+' Or 'x'; what will be the minimum value of '1@2@3@4@5'?

(Note: We have a choice to replace each of the four @ signs in the expression by either '+' or 'x' operation)

(1) 14

(2) 12

(3) 15

(4) 13

ans:(1) 14



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$$1 * 2 + 3 + 4 + 5 = 2 + 3 + 4 + 5 = 13$$

64. . If $2x + 5y = 12$, $xy = 2$, find the value of: $8x^3 + 125y^3$

(1) 1018

(2) 1208

(3) 1008

(4) 1028

ans:(3) 1008

Explanation:

$$xy = 2$$

$$\therefore x = 1, y = 2$$

$$2 * 1 + 5 * 2 = 2 + 10 = 12$$

$$\begin{aligned} 8x^3 + 125y^3 &= 8 * 1 + 125 * 8 \\ &= 8 + 1000 = 1008 \end{aligned}$$

65. The following pie-chart shows the percentage of students of a metro city enrolled in various hobby classes during summer vacation in 2018. If the total number of students is 3500, find the total number of students enrolled in karate, cooking and creative writing.



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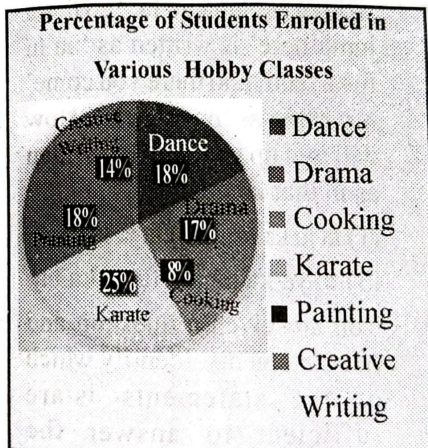
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(1) 1605

(2) 1665

(3) 1650

(4) 1645

ans:(4) 1645

Explanation:

Total Percentage of students enrolled in karate, cooking and creative writing
 $= 25 + 8 + 14 = 47\%$

Total number of students enrolled in karate, cooking and creative writing

$$\text{creative writing} = \frac{3500 \times 47}{100} = 1645$$

66. Thumba was chosen as the ideal site for rocket launch due to the presence of-----



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- (1) Geomagnetic jets
- (2) Equatorial electrojets
- (3) Magna jets
- (4) Electro magna jets

ans:(2) Equatorial electrojets

Explanation:

Thumba was chosen as the ideal site for rocket launch due to the presence of equatorial electrojets.

Thumba is very close to the earth's magnetic equator.

Thumba's location at 8°32'34" N and 76°51'32" E is ideal for low-altitude, upper atmosphere, and ionosphere studies

67. HTTP stands for

- (1) Hyper Text Transfer Protocol
- (2) Hyper Test Transport Protocol
- (3) Hyper Text Test Protocol
- (4) Hyper Text Tool Protocol

ans:(1) Hyper Text Transfer Protocol

Explanation:

HTTP stands for Hyper Text Transfer Protocol and is the foundation of the World Wide Web.



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Hypertext Transfer Protocol is used to load webpages using hypertext links.

HTTP is an application layer protocol designed to transfer information between networked devices and runs on top of other layers of the network protocol stack.

A typical flow over HTTP involves a client machine making a request to a server, which then sends a response message

68. To create Scientific temperament, innovation amongst the Indian students, Central Government started an ATL lab. What is the full form of ATL?

- (1) Atal Tinkering Lab**
- (2) Applied Techno Lab**
- (3) Alternate Technique Lab**
- (4) Atal Technology Lab**

ans:(1) Atal Tinkering Lab

Explanation:

Atal Tinkering Lab (ATL LAB) is a government of India initiative established under

NITI Aayog's Atal Innovation Mission (AIM)

The objective is to create an environment of scientific temperament, innovation, creativity amongst Indian students.

It is a step towards a new India that will embrace and encourage novel and innovative ideas and inventions.



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69. A 2 m deep and 21 m wide river is flowing at the rate of 5 km/h. How many kilolitres of water will fall into the sea in 10 min?

- (1) 35000 kl
- (2) 3500 kl
- (3) 350 kl
- (4) 33000 kl

ans:(1)35000 kl

Explanation:

$$\text{Area of river} = 2 \times 21 = 42\text{m}^2$$

$$\text{Flow rate} = 5 \text{ kmph}$$

$$= \frac{5000}{60} = \frac{250}{3} \text{ m/min}$$

Amount of Waterfall into the sea in 10 minute.

$$= 42 \times \frac{250}{3} \times 10 = 35000\text{m}^3$$
$$= 35000 \text{ kl}$$

70. If 'a*b' means 'a is the brother of b', 'a#b' means 'a is the father of b' and 'a\$b' means 'a is the wife of b', then which of the following relationships means 'r is the son of p'?

- (1) p#q\$Sr
- (2) p\$q#r
- (3) p*q*r
- (4) p*q#r



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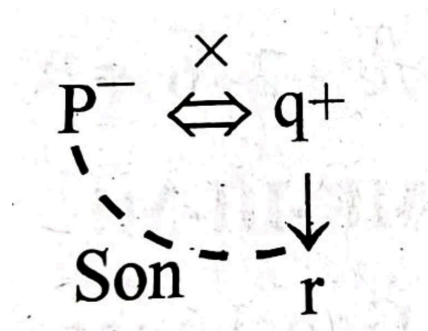
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ans:(2) p\$#r

Explanation:



71. Which country has the most successful farming? cooperative

(1) Denmark

(2) Norway

(3) Sweden

(4) Finland

Ans (1) Denmark

Explanation:

A group of farmers forms a cooperative society by pooling in their resources voluntarily for more efficient and profitable farming

Cooperative societies helps farmers to produce all important inputs of farming, sell the products at most favourable terms and help in the processing of quality products at cheaper rates

The movement has been successful in many western European countries like Denmark, Netherlands, Belgium, Sweden, Italy etc



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72. The side of an equilateral triangle ABC is 28 cm. Find the side of another equilateral triangle PQR whose area is 16 times the area of triangle ABC.

(1) 56 cm

(2) 102 cm

(3) 112 cm

(4) 122 cm

Ans (3) 112 cm

Explanation:

$$\begin{aligned}\text{Area of } \Delta ABC &= \frac{\sqrt{3}}{4} \times 28^2 \\ &= 196\sqrt{3} \text{ sq.cm} \\ \text{Area of } \Delta PQR &= 16 \times 196\sqrt{3} \\ 16 \times 196\sqrt{3} &= \frac{\sqrt{3}}{4} \times (\text{Side of} \\ &\Delta PQR)^2 \\ \text{Side of equilateral triangle} \\ &= 112\text{cm}\end{aligned}$$

73. Find the value of:

$$\sqrt{150} - \sqrt{54} - \sqrt{24}$$

(1) 1

(2) 72



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(3) 0

(4) 75

Ans (3) 0

Explanation:

$$\begin{aligned} & \sqrt{150} - \sqrt{54} - \sqrt{24} \\ &= \sqrt{25 \times 6} - \sqrt{9 \times 6} - \sqrt{4 \times 6} \\ &= 5\sqrt{6} - 3\sqrt{6} - 2\sqrt{6} = 0 \end{aligned}$$

74. Which launch vehicle was used launch Chandrayaan-2?

(1) ASLV

(2) PSLV-C46

(3) GSLV MK-II

(4) GSLV MK-III-M1

Ans

(4) GSLV MK-III-M1

Explanation:

India's Geosynchronous Satellite Launch Vehicle GSLV MkIII-M1, successfully launched the 3840 kg Chandrayaan-2 spacecraft into an earth orbit on 22 July 2019.

It is India's heaviest Rocket nicknames as 'Bahubali'.



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The GSLV MK - III is the chosen launch vehicle for ISRO's highly ambitious mission to send humans to space (Gaganyaan Mission)

75. The cost price of 8 tables is equal to the selling price of 5 tables. Find the percentage gain.

(1) 40%

(2) 45%

(3) 60%

(4) 30%

Ans (3) 60%

Explanation:

$$\begin{aligned}\text{Profit \%} &= \frac{8-5}{5} \times 100 \\ &= 3 \times 20 = 60\%\end{aligned}$$

76. A train leaves Bangalore railway station at a speed of 80 km/h for Mumbai. After 1 h another train leaves Bangalore railway station for Mumbai at a speed of 100 km/h. How many hours, will the second train take to meet the first train?

(1) 5 h

(2) 3 h

(3) 6 h

(4) 4 h

Ans (4) 4 h



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Explanation:

Distance is same

$$100x = (x + 1) 80$$

$$100x = 80x + 80$$

$$20x = 80$$

$$x = 4$$

After 4 hrs second train m the first train

77. The sum of and the difference between the LCM and HCF of two numbers are 369 and 351 respectively. If one number is 72, find the other number.

(1) 85

(2) 90

(3) 45

(4) 75

Ans (3) 45

Explanation:



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LCM \times HCF = Product of numbers

$$\text{LCM} + \text{HCF} = 369 \text{ ——— } \textcircled{1}$$

$$\text{LCM} - \text{HCF} = 351 \text{ ——— } \textcircled{2}$$

$$\textcircled{1} - \textcircled{2} \Rightarrow 2 \text{ HCF} = 18$$

$$\text{HCF} = 9$$

$$\text{LCM} = 369 - 9 = 360$$

$$360 \times 9 = 72 \times x$$

$$x = \frac{360 \times 9}{72} = 45$$

78. In an examination, 55% candidates passed in English, 35% candidates passed in mathematics and 20% candidates passed in both the subjects. If the total number of failed candidates in both the subjects is 1200, then find how many candidates took the exam.

(1) 2800

(2) 1200

(3) 4000

(4) 3000

Ans (3) 4000

Explanation:



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Candidates Passed in English only = $55 - 20 = 35\%$

Candidates Passed in Maths only = $35 - 20 = 15\%$

Candidates Failed in both subjects

$$= 100 - (35 + 15 + 20)$$

$$= 100 - 70 = 30\%$$

Number of Candidates took the

$$\text{exam} = \frac{1200 \times 100}{30}$$

$$= 4000$$

79. A sum of money amounts to 12,100 interest. in 2 years and 13,310 in 3 years, when compounded annually. Find the rate of interest

(1) 9%

(2) 12%

(3) 8%

(4) 10%

Ans (4) 10%

Explanation:



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Rate of compound interest

$$= \frac{A_2 - A_1}{A_1} \times 100$$

$$= \frac{1210 \times 100}{12100}$$

$$= 10\%$$

80.. What kind of a tax is GST?

(1) Indirect Tax

(2) Value Added Tax

(3) Income tax

(4) Direct Tax

Ans (1) Indirect Tax

Explanation:

GST is known as the Goods and Services Tax.

It is an indirect tax which has replaced many indirect taxes in India such as the excise duty, VAT, services tax, etc.

The Goods and Service Tax Act was passed in the Parliament on 29th March 2017 and came into effect on 1st July 2017.

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

KABL, MCDN, OEFP, QGHR,?

(1) UQRV



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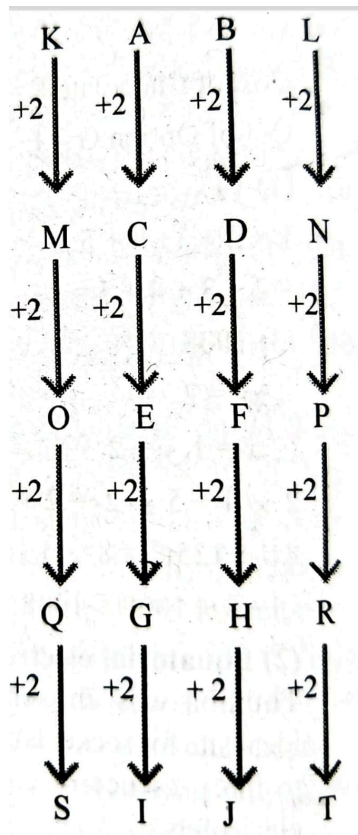
(2) YBAZ

(3) WSTX

(4) SIJT

Ans (4) SIJT

Explanation:



82. A sum of ₹ 5,000 was lent partly at 5% simple interest per annum and partly at 10% simple interest per annum. Total interest received after 5 years was ₹1,750. Find the amount of money that was lent out at 10% simple interest per annum.

(1) ₹3,000

(2) ₹3,500



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(3) ₹2,000

(4) ₹2,500

Ans (3) ₹2,000

Explanation:

Amount lent out at 10% SI be
 x .

$$1750 =$$

$$\frac{x \times 10 \times 5}{100} + \frac{(5000 - x) \times 5}{100}$$

$$\frac{1750 \times 100}{5} = 10x + 25000 - 5x$$

$$5x = 10000$$

$$x = 2000$$

83. Name the female wrestler recommended by Wrestling Federation of India for the prestigious 2020 Rajiv Gandhi Khel Ratna Award.

(1) Babita Kumari

(2) Kavita Devi

(3) Sakshi Malik

(4) Vinesh Phogat

Ans (4) Vinesh Phogat

Explanation:

Ms. Vinesh Phogat won the Rajiv Gandhi Khel Ratna Award in the National Sports Awards 2020.

Vinesh Phogat competes in 48kg/50kg/53kg freestyle wrestling.



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She became the first Indian athlete to be nominated for the Laureus World Sports Awards in 2019.

She is the first Indian female wrestler to win gold in both Commonwealth (2014, 2018) and Asian Games (2018).

Rajiv Gandhi Khel Ratna: The Rajiv Gandhi Khel Ratna Award is India's highest honor given for achievement in sports. The award was instituted in the year 1991-92 and was awarded by the Government of India.

Vishwanathan Anand was the first person to win the Rajiv Gandhi Khel Ratna

84. One of the most important teachers of Chishti Silsila, Shaikh Moinuddin Chishti dargah is located at

(1) Delhi

(2) Fatehpur Sikri

(3) Kashmir

(4) Ajmer

Ans (4) Ajmer

Explanation:

Ajmer Sharif Dargah is a sufi tomb of the revered Sufi Saint, Moinuddin Chishti

It is located at Ajmer (Rajasthan) comprised of Chishti's grave

Chishti was a charismatic and compassionate spiritual preacher and teacher



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85. Four pairs of numbers have been given, out of which three are alike in some manner and one is different. Select the pair that is different from the rest.

(1) 66, 6 (2) 34, 3

(3) 54, 5 (4) 24, 2

Ans(1) 66, 6

Explanation:

$$(6 \times 10) + 6 = 66 \rightarrow 66, 6$$

$$(3 \times 10) + 4 = 34 \rightarrow 34, 3$$

$$(5 \times 10) + 4 = 54 \rightarrow 54, 5$$

$$(2 \times 10) + 4 = 24 \rightarrow 24, 2$$

66, 6 is different

86. 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: Some dolls are plants.

2: Some plants are books.

Conclusions:

1: Some dolls are books.

2: No book is a plant.



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- (1) Only conclusion 2 follows.
- (2) Neither conclusion 1 nor conclusion 2 follows
- (3) Both conclusion 1 and conclusion 2 follow.
- (4) Only conclusion 1 follows.

Ans(2) Neither conclusion 1 nor conclusion 2 follows

Explanation:

Some Dolls → Plants

Some Plants → Books

Some Dolls → Not Books

Some Books → Plants

∴ Conclusion 1 and
Conclusion 2 are false

87. If ' $p + q$ ' implies $p - q$ ' $p - q$ ' implies $p * q$, ' $p * q$ ' , implies ' $p / (q')$ ' and p / q^{\wedge} , implies $p + q$ ' , then find the value of $25 + 48 * 6 / 12 - 2$

- (1) 41
- (2) 52
- (3) 17
- (4) 39

Ans(1) 41

Explanation:



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$$\begin{aligned}25 - 48 \div 6 + 12 \times 2 \\ &= 25 - 8 + 24 \\ &= 41\end{aligned}$$

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

48, 32, 16, ?

(1) 13

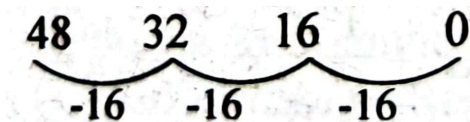
(2) -9

(3) 0

(4) 12

Ans (3) 0

Explanation:



89. Select the ordered pair of statements which are logically consistent with the main statement.

Main Statement:

Whenever Sakshi hears it's someone's birthday, she orders a cake.



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- A. Sakshi heard of someone's birthday.
- B. Sakshi did not hear of someone's birthday.
- C. Sakshi ordered a cake.
- D. Sakshi did not order a cake.

(1) AB

(2) DB

(3) CA

(4) BD

Ans(2) DB

Explanation:

According to the statement

If Sakshi knows someone's birthday

She order Cakes But if she didnot hear of birthday then she did not order cake So, DB are logically consistent.

90. In a certain code language, 'get up and go' is written as 'fa ka la ju', 'jump up and dance' is written as 'lu la hu fa' 'go there jump here' is written as 'na lu fu ka' and 'and there you come' is written as 'na lu ya la'. How will 'get up go there' be written as in that language?



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(1) fa ju ka na

(2) fa ju la ka

(3) fa ya ka na

(4) fu ya ka na

Ans:

Explanation:

get (up) and go - (fa) ka la ju
jump (up) and dance - lu la hu (fa)
go (there) jump here - (na) lu fu ka
and (there) you come in - (na) tu ya la
get - ju
up - fa
go - Ka
there -na
Hence fa ju ka na is correct

91. You are given a question and two statements. Identify which of the statements is/are sufficient to answer the question.

Question:

When is Yuvi's wedding anniversary?

Statements:

1: On 7th day of a month.

2: The month has 29 days only in a leap year.

(1) Both statement 1 and statement 2 are sufficient independently.



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(2) Only statement 1 is sufficient but statement 2 is not sufficient.

(3) Both statement 1 and statement 2 are sufficient together.

(4) Only statement 2 is sufficient but statement 1 is not sufficient

Ans:Both statement 1 and statement 2 are sufficient together.

Explanation:

From statement 1 we known date

and from 2, we know month.

So

Yuvi's wedding anniversary 7th February

Both statement 1 and statement 2 are sufficients together.

92.What is the sum of the cubes of the first four natural numbers?

(1) 1000

(2) 84

(3) 96

(4) 100

Sum of cubes of first natural
numbers

$$= 1^3 + 2^3 + 3^3 + 4^3$$

$$= 1 + 8 + 27 + 64 = 100$$



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93. Two college friends A and B who met after a couple of years had a doubt about the birthday of their common friend C. According to A, C's birthday is after 12th March but before 15th March. But B remembered that C's birthday is after 13th March but before 17th March. Assuming both of them to be correct, on which date is C's birthday?

1. 16th March

2. 14th March

3. 13th March

4. 15th March

ans: (2) 14th March

Birthday is 12th March but before 15th March

either on 13th or 14th March.

After 13th but before 17th March.

From all these assumptions C's birthday is 14th March

94. Out of the four words which are related to books listed below, three are alike in some manner and one is different. Select the odd one.

1. Foreword

2. Preface

3. Edition



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4. Index

ans: Edition

Forewords, preface Index are parts of books and edition is a published book.

95. The following table shows the cost price of five different goods and their selling prices by two different shopkeepers. Identify the shopkeeper who made more profit (in total) and his/her percentage profit.

Goods	Cost Price	Selling Price by Shop keeper X	Selling Price by Shop keeper Y
A	173	180	175
B	219	220	225
C	350	360	357
D	481	490	500
E	227	250	235

(1) Shopkeeper X, 3.45%

(2) Shopkeeper Y, 2.90%

(3) Shopkeeper Y, 3.45%

(4) Shopkeeper X, 2.90%

Ans:



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Cost price of five goods = 173
 + 219 + 350 + 481 + 227 = 1450

SP by X = 180 + 220 + 360 +
 490 + 250 = 1500

SP by Y = 175 + 225 + 357 +
 500 + 235 = 1492

Profit % of X =

$$\frac{1500 - 1450}{1450} \times 100 = 3.45\%$$

Profit % of Y =

$$\frac{1492 - 1450}{1450} \times 100 = 2.90\%$$

X has made more profit

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

2-4-6-8; 3 - 6 - 9 - 12; 4-8-12-16; ?

(1) 5-10-15-20

(2) 5-6-7-8

(3) 5-7-9-11

(4) 5-8-11-15

+2 +2 +2
 2 4 6 8

+3 +3 +3
 3 6 9 12

+4 +4 +4
 4 8 12 16

+5 +5 +5
 5 10 15 20



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

3, 16, 125, ?

(1) 4008

(2) 1296

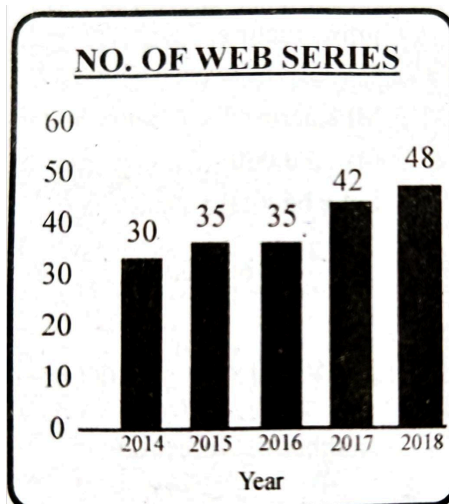
(3) 1008

(4) 4096

ans:

$$3^1, 4^2, 5^3, 6^4 = 1296$$

98. The following bar graph shows the number of web series released by a subscription service mobile application in various years from 2014-2018. What is the average number of web series released by the subscription service mobile application from 2015 to 2018?



(1) 40



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(2) 39

(3) 41

(4) 38

Ans:

Average number of webseries
from 2015 to 2018

$$= \frac{35 + 35 + 42 + 48}{4}$$

$$= \frac{160}{4} = 40$$

99. You are given 3 sets of arguments, each containing three sentences. Select the set(s) in which the third statement is a logical conclusion of the first two statements.

A. (i) All shops are showrooms.

(ii) No showroom is a mall.

(iii) All shops are not malls.

B. (i) No Japanese can dance.

(ii) All Americans are books.

(iii) Americans and Japanese can dance.

C. (i) No P is Q.

(ii) No Q is R.



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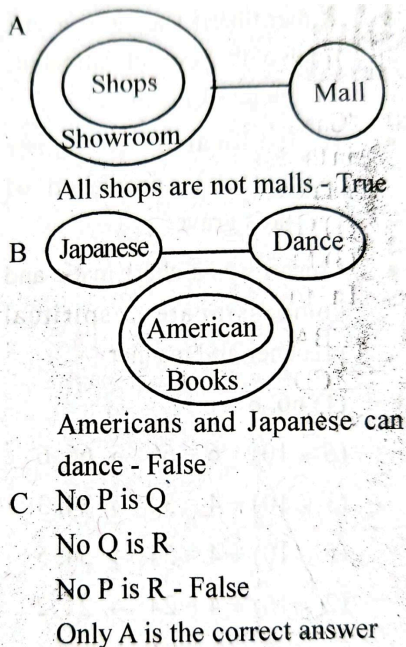
(iii) No P is R.

(1) Only C

(2) Only B

(3) Only A

(4) Only B and C



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

Statements:

In a T-20 cricket match, total wickets taken by a team were 9. Out of these, 6 wickets were taken by spinners.



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Conclusions:

A: 80% of the bowlers in the team were spinners.

B: The opening bowlers of the team were spinners.

(1) Only Conclusion A follows.

(2) Only Conclusion B follows.

(3) Both Conclusion A and Conclusion B follow.

(4) Neither Conclusion A nor Conclusion B follows.

ans:(4) Neither Conclusion A nor Conclusion B follows.

Conclusion A.

80% of the bowlers in the team were spinners → FALSE (The 6 wickets of batting -team were may be taken by 2 or 3 or any number of bowling-team Spinners, So we can not say anything about the number of spinners players).

Conclusion B.

The opening bowlers of the team were spinners → FALSE (As no mention of the first bowler in the statement we can not say anything about it).

Hence, Neither conclusion A nor conclusion B follows.



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