



Your Personal Exams Guide



NDA



CDS



SSC CGL



CBSE UGC NET



IAS



SSC CHSL



CTET



MPSC



AFCAT



CSIR UDC NET



IBPS PO



UP POLICE



SSC MTS



SBI PO



BPSC



UP TET



IBPS RRB



IBPS CLERK



IES



UPSC CAPF



SSC Stenogr..



RRB NTPC



SSC GD



RBI GRADE B



RBI Assistant



DSSSB

RRB Group D 2018 Previous Year Paper (25-Sep-2018) (Shift 1)

Total Time: 1 Hour : 30 Minute

Total Marks: 100

Instructions

Sl No.	Section Name	No. of Question	Maximum Marks	Negative Marks	Positive Marks
1	CBT	100	100	0.33	1

- 1.) A total of 90 minutes is allotted for the examination.
- 2.) The server will set your clock for you. In the top right corner of your screen, a countdown timer will display the remaining time for you to complete the exam. Once the timer reaches zero, the examination will end automatically. The paper need not be submitted when your timer reaches zero.
- 3.) There will, however, be sectional timing for this exam. You will have to complete each section within the specified time limit. Before moving on to the next section, you must complete the current one within the time limits.

Your Personal Exams Guide

CBT

1. The salivary gland secretes _____ enzyme. (+1, -0.33)
- a. amylase
 - b. lipase
 - c. pepsin
 - d. trypsin
-
2. The famous football player Maradona belongs to which among the following countries? (+1, -0.33)
- a. Mexico
 - b. Ireland
 - c. Argentina
 - d. Germany
-
3. The average salary of male employees in a firm is Rs. 5200 and that of females is Rs. 4200. The mean salary of all the employees is Rs. 5000. The percentage of male employees in that firm is: (+1, -0.33)
- a. 20%
 - b. 60%
 - c. 40%
 - d. 80%

4. If NOT is coded as 141520, then what is the code the EMBLEM? (+1, -0.33)

- a. 513312513
- b. 513212514
- c. 523212513
- d. 513212513

5. Who among the following won the 2017 World Rapid Chess Championship? (+1, -0.33)

- a. Vladimir Fedoseev
- b. Viswanathan Anand
- c. Ian Nepomniachtchi
- d. Kutwal Magnus Carlsen

6. An object with a mass of 30 kg moving with a velocity of 5 m/s. What is the kinetic energy possessed by the object? (+1, -0.33)

- a. 375 N
- b. 375 kg m/s
- c. 375 J
- d. 375 Pa

7. $0.02\overline{36}$, written as a regular fraction in its simplest form, is equal to: (+1, -0.33)

- a. $\frac{13}{550}$

b. 13/3300

c. 13/1100

d. 13/9999

8. The product of velocity and time gives:

(+1, -0.33)

a. Distance

b. speed

c. Displacement

d. Momentum

9. Consider the following question and decide which of the statements is sufficient to answer the question.

(+1, -0.33)

Question:

Mika is the niece of Mahi. Determine the present ages of Mika and Mahi.

Statements:

1. Their mean age is 27.

2. After 15 years, Mahi's age will be twice that of Mika's.

a. Statement 1 and 2 together are not sufficient

b. Statement 1 and 2 together are sufficient

c. Statement 1 alone is sufficient

d. Statement 2 alone is sufficient

10. If the frequency of a wave is doubled then its wavelength will be: (+1, -0.33)

- a. half of the original
- b. three times the original
- c. one-third the original
- d. double the original

11. The Khangchendzonga Biosphere Reserve which was included in UNESCO's World Network of Biosphere Reserve is in: (+1, -0.33)

- a. Maharashtra
- b. Madhya Pradesh
- c. Sikkim
- d. Assam

12. Find the next term in this series (+1, -0.33)

75, 81, 88, 96, _ _ _ _

- a. 110
 - b. 104
 - c. 115
 - d. 105
-

13. Which of the following does NOT belong to this group? (+1, -0.33)

- a. Mercury
- b. Paraffin
- c. Coconut oil
- d. Sediment

- a. C
- b. B
- c. A
- d. D

14. Choose the organisation that does NOT belong to the given group: (+1, -0.33)

- a. IIM, Ahmedabad
- b. NIT, Warangal
- c. Reserve Bank of India, Mumbai
- d. IISC, Bangalore

15. In which city will India's first defence incubators come up? (+1, -0.33)

- a. Hyderabad
- b. New Delhi
- c. Bengaluru

d. Ahmedabad

16. Pipe A can empty a filled tank in 5.6 hours while Pipe B can fill the same tank in 7 hours when it is empty. If Pipes A and B are alternately turned on for an hour each time, starting when the tank is full, how long will it take to empty the tank? (+1, -0.33)

a. 55 hours

b. 48 hours

c. 56 hours

d. 47 hours

17. _____ can be used as an olfactory indicator. (+1, -0.33)

a. Tamarind

b. Amla

c. Alum

d. Vanilla

18. Given is a question followed by two arguments. Decide which of the arguments is/are strong with respect to the question. (+1, -0.33)

Question:

Should children be taught to wisely use the Internet?

Arguments:

I. Yes, this way, they will know to use the Internet responsibly.

II. No, they learn a lot by exploring on their own.

- a. Both arguments I and II are strong.
- b. Only argument II is strong.
- c. Neither argument I nor II is strong.
- d. Only argument I is strong.

19. In the series below one of the terms following the sequence is wrong. Find out the wrong option: (+1, -0.33)

11111, 235656, 39816561, 41625665536

- a. 41625665536
- b. 39816561
- c. 235656
- d. 11111

Your Personal Exams Guide

20. Find simple interest earned on a sum of Rs. 1640 invested at 7.5% simple interest for 6 years. (+1, -0.33)

- a. Rs. 742
- b. Rs. 738
- c. Rs. 748
- d. Rs. 750

21. In a bank, Deepa deposits a sum of Rs. 6250, which amounts to Rs. 7840 in two years, compounded annually. The rate of interest is: **(+1, -0.33)**

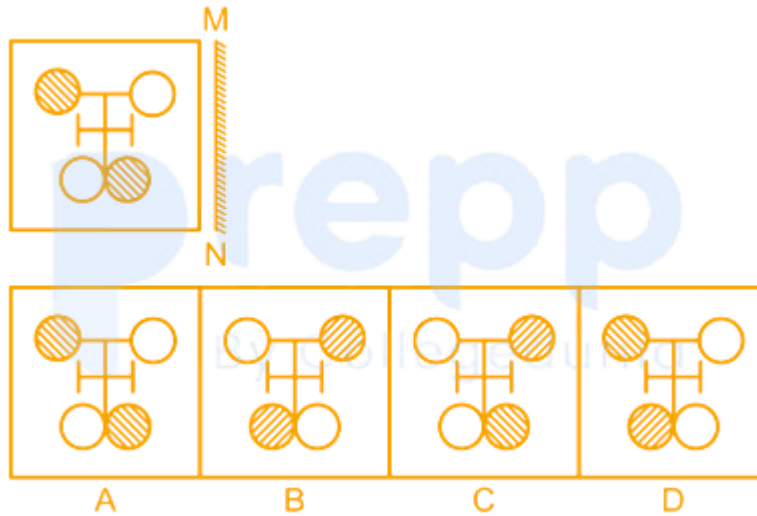
- a. 10%
- b. 12%
- c. 13%
- d. 11%

22. What is the next term in the given series? **(+1, -0.33)**

12B, 2H, 14C, 4G, 16D, -----

- a. 6Q
- b. 6F
- c. 6E
- d. 18E

23. Choose the mirror image of the following figure: **(+1, -0.33)**



- a. B
- b. D
- c. C
- d. A

24. In the Union Budget 2018, the Union government had announced that it would build a tunnel through the Sela Pass. In which state is the Sela Pass located? (+1, -0.33)

- a. Assam
- b. Arunachal Pradesh
- c. Tripura
- d. Meghalaya

25. If the work done by an elevator is 1000 J with a constant force of 200 N, then the distance covered by elevator is: (+1, -0.33)

- a. 0.2 m
- b. 2 m
- c. 1 m
- d. 5 m

26. Which of the following correctly represents the relationship between (+1, -0.33)

- A. Length
- B. breadth
- C. Dimension

- a. 
- b. 
- c. 
- d. 

27. In the question, a statement is given, followed by two arguments, I and II. (+1, -0.33)
You have to decide which of the given arguments, if any, is a strong argument.

Statement:

Should the Integrity of Wildlife Sanctuaries be maintained?

Argument:

- I. Yes, endangered species should be given a special place to live in, which promotes ecological balance.
- II. No, they should attract more and more visitors to generate income.
- a. Only argument 2 is a 'strong' argument.
- b. Only argument 1 is a 'strong' argument.
- c. Argument 1 and 2 both are 'strong' argument.
- d. Neither argument 1 nor 2 is a 'strong' argument

28. A cone of diameter 14 cm and height 24 cm is placed on top of a cube of side 14 cm. Find the surface area of the whole figure. (+1, -0.33)

- a. 1675 sq cm
- b. 1900 sq cm
- c. 1572 sq cm
- d. 1726 sq cm

29. Which of the following Veda mentions about magical rituals and charms? (+1, -0.33)

- a. Samaveda
- b. Yajurveda
- c. Atharva Veda

d. Rigveda

30. In the Indian economy, _____ are the principal means of transportation. (+1, -0.33)

- a. ships
 - b. bullock carts
 - c. cycles
 - d. the railways
-

31. 21 g of MgCO_3 will have _____ moles of magnesium. (+1, -0.33)

- a. 0.31
 - b. 0.21
 - c. 0.25
 - d. 0.51
-

32. Raju gained a profit of 6% by selling a washing machine for Rs. 689. What was the cost price of the washing machine? (+1, -0.33)

- a. Rs. 625
 - b. Rs. 635
 - c. Rs. 650
 - d. Rs. 700
-

33. The reproductive parts of angiosperms are located in the _____. (+1, -0.33)

- a. Roots
 - b. Flowers
 - c. Stem
 - d. Leaves
-

34. Which of the following does NOT belong to the given group? (+1, -0.33)

- A. Ride
- B. Crawl
- C. Swim
- D. Think

- a. D
 - b. A
 - c. B
 - d. C
-

35. Which app has the Government of India launched for Road Safety and Highway Users? (+1, -0.33)

- a. Sukh Yatra
- b. Surakshith Yatra
- c. Sulabh Yatra

d. Sukhad Yatra

36. Find the odd one out.

(+1, -0.33)

A	B	C	D
6F	P14	U21	W23

a. B

b. A

c. C

d. D

37. The lens formula is _____.

(+1, -0.33)

a. $\frac{1}{v} + \frac{1}{u} = \frac{1}{f}$

b. $\frac{1}{f} + \frac{1}{v} = \frac{1}{u}$

c. $\frac{1}{f} - \frac{1}{u} = \frac{1}{v}$

d. None of the above

38. An object travels 15 m in 4s and then another 16 m in 2s. What is the average speed of the object?

(+1, -0.33)

a. 5.17 s^{-1}

- b. 5.17 ms^{-1}
 - c. 6.17 ms^{-1}
 - d. 5.17 m
-

39. The width of each of five continuous classes in a frequency distribution is 5 and the lower class limit of the lowest class is 10. What is the upper-class limit of the highest class? (+1, -0.33)

- a. 45
 - b. 35
 - c. 15
 - d. 25
-

40. What day would it be on 19th April 2020? (+1, -0.33)

- a. Monday
 - b. Sunday
 - c. Tuesday
 - d. Saturday
-

41. Pani's house faces West. On entering her home, you will find the kitchen to the right-hand side. With respect to the entrance, in which direction is the kitchen? (+1, -0.33)

- a. South

- b. North-East
 - c. North
 - d. North-West
-

42. If LEGEND is written as 12575144, then what is the code for TREND? (+1, -0.33)

- a. 20175144
 - b. 21185144
 - c. 19185144
 - d. 20185144
-

43. Find the value of $22 - [23 - \{24 - (27 - \overline{29 - 30})\}]$. (+1, -0.33)

- a. 1
 - b. -3
 - c. -4
 - d. -5
-

44. Which river flows through Surat? (+1, -0.33)

- a. Mahanadi
- b. Kim
- c. Tapi

d. Rupen

45. The number of diagonals in a 26-gon is: (+1, -0.33)

a. 300

b. 325

c. 299

d. 650

46. Fuel formed under the earth's surface by the decomposition of organic matter is called _____ fuel. (+1, -0.33)

a. charcoal

b. fossil

c. biomass

d. wood

47. If a current of 0.3 A is passed through a coil of resistance 418 ohms for 1 min, find the heat energy generated. (+1, -0.33)

a. 360 cal

b. 540 cal

c. 54 cal

d. 36 cal

48. _____ element is added with copper and zinc to form bronze. (+1, -0.33)

- a. Sn
- b. Pb
- c. Au
- d. Al

49. $15 \times 3 - 9 \times (5^2 \div 5) \div 5 \div (1 \div 3) + 10 = ?$ (+1, -0.33)

- a. 28
- b. 18
- c. 8
- d. 30

50. Consider the given statement and decide which of the following assumptions is/are implicit in the statement. (+1, -0.33)

Statement:

"March endings are always hectic", says the Branch Manager to his colleague.

Assumptions:

- I. There is more work at the end of March.
 - II. Much work gets piled up due to lack of timely work.
- a. Neither I nor II is implicit.

- b. Only I is implicit.
- c. Only II is implicit
- d. Both I and II are implicit

51. If RARE is written as 181185, then what is the code for YELL? (+1, -0.33)

- a. 2551313
- b. 2551212
- c. 2561212
- d. 2451212

52. Find the odd one out. (+1, -0.33)

A	B	C	D
9I	O15	5E	21U

- a. B
- b. D
- c. C
- d. A

53. The diagonals of a rhombus are 12 cm and 16 cm, respectively. The mid points of the sides of the rhombus are joined. Find the area of the thus formed figure. (+1, -0.33)

- a. 192 cm^2
- b. 48 cm^2
- c. 64 cm^2
- d. 96 cm^2

54. _____ is a martial art form of Manipur. (+1, -0.33)

- a. Bagurumba
- b. Rouff
- c. Thang Ta
- d. Bihu

55. Which type of reproduction can bring greater diversity? (+1, -0.33)

- a. Regeneration
- b. Sexual
- c. Asexual
- d. Budding

56. As of August 2018, DMK and AIADMK are the regional parties of which state? (+1, -0.33)

- a. Andhra Pradesh
- b. Tamil Nadu
- c. Kerala
- d. Karnataka

57. Aqua regia is a mixture of concentrated HNO_3 and concentrated HCl in the ratio _____.

- a. 3 : 1
- b. 2 : 3
- c. 1 : 2
- d. 1 : 3

58. $\text{Fe} + \text{CuSO}_4 \rightarrow \text{FeSO}_4 + \text{Cu}$ (+1, -0.33)

The given reaction is an example of _____.

- a. Displacement Reaction
- b. Combustion reaction
- c. Dissolution reaction
- d. Coupling reaction

59. A cycle company sells two brands of cycles in a day with a total profit of Rs. 6,000. If the profit from one brand of cycle is 45% of the total profit, what is the profit amount made by selling the other brand of cycle? (+1, -0.33)

- a. Rs. 5,000
- b. Rs. 3,000
- c. Rs. 3,300
- d. Rs. 3,250

60. When was the Theosophical Society founded? (+1, -0.33)

- a. 1876
- b. 1875
- c. 1873
- d. 1885

61. Read the given statement(s) and conclusions carefully and select which of the conclusions logically follow(s) from the statement(s). (+1, -0.33)

Statements:

- Some racoons are multicoloured
- Some parrots are multicoloured

Conclusions:

1. Some raccoons are parrots
2. All parrots are racoons

- a. Both the conclusions follow
 - b. None of the conclusions follows
 - c. Only conclusion 1 follows
 - d. Only conclusion 2 follows
-

62. PCA (supervisory tools to maintain the sound financial health of banks) stands for: (+1, -0.33)

- a. Prompt Corrective action
 - b. Possible Collective Action
 - c. Possible Corrective Action
 - d. Prompt Collective Action
-

63. Evaporation of water occurs at _____. (+1, -0.33)

- a. at freezing point
 - b. at all temperatures
 - c. at boiling point
 - d. at fusion temperature
-

64. The mass of an object on the earth is 10 kg. What is its weight on the earth? (+1, -0.33)

- a. 10 N

- b. 9.8 N
- c. 980 N
- d. 98 N

65. Ruksana went to the city from her home at a speed of 6 km/h but came back by the same route at a speed of 5 km/h. The two-way journey took her $16\frac{1}{2}$ hours in total. How far from the city does Ruksana live? (+1, -0.33)

- a. 45 km
- b. 37.5 km
- c. 52.5 km
- d. 60 km

66. **Direction:** In the following question, a given question is followed by information in two statements. You have to find out the data in which statement (s) is sufficient to answer the question and mark your answer accordingly. (+1, -0.33)

Leela has 4 pens of 3 different colours. How many blue pens does he have?

Statement:

- I. 2 pens are of different colours.
- II. The colour of 2 pens is the same which is red.
- a. Statement I and Statement II together are sufficient.
- b. Statement I and Statement II together are not sufficient.

- c. Statement II alone is sufficient to answer the question.
 - d. Statement I alone is sufficient to answer the question.
-

67. A bullet of mass 12 g is fired from a rifle. The bullet takes 0.006 seconds to move through its barrel and leaves it with a velocity of 300 m/s. What is the force exerted on the bullet by the rifle? (+1, -0.33)

- a. 180 N
 - b. 900 N
 - c. 720 N
 - d. 600 N
-

68. Name the eminent personality from Hindi litterateurs who was awarded the 53rd Jnanpith Award for the year 2017? (+1, -0.33)

- a. Krishna Sobti
 - b. Rashmi Bansal
 - c. Jasodhara Bagchi
 - d. Sushmita Banerjee
-

69. Which of the given assumptions are implied from the below statement? (+1, -0.33)

Statement:

The school management has announced the addition of the music arts session to each standard.

Assumptions:

- I. The management wants to create a holistic approach to learning.
 - II. The management wants to give children a foundation to learn arts.
- a. Neither assumption I nor II is implicit
 - b. Only assumption II is implicit
 - c. Only assumption I is implicit
 - d. Both assumptions I and II are implicit
-

70. The Report on Indian constitutional reforms, commonly known as the Montagu-Chelmsford Report was published in: (+1, -0.33)

- a. 1905
 - b. 1910
 - c. 1920
 - d. 1918
-

71. In a bag containing red, green and pink tokens, the ratio of red to green tokens was 5 : 11 while the ratio of pink to red tokens was 7 : 15. What was the ratio of green to pink tokens? (+1, -0.33)

- a. 77 : 75
- b. 75 : 77
- c. 11 : 7
- d. 33 : 7

72. Who is the youngest Indian golfer to participate in any major event? (+1, -0.33)

- a. Jyoti Randhawa
- b. Jeev Milkha Singh
- c. Shubhankar Sharma
- d. Anirban Lahiri

73. Who is the brand ambassador of the gaming platform Dream 11? (+1, -0.33)

- a. Suresh Raina
- b. Virat Kohli
- c. Sunil Gavaskar
- d. M.S. Dhoni

74. Which of the following worms causes elephantiasis? (+1, -0.33)

- a. Filarial worms
- b. Roundworms
- c. Hookworms
- d. Tapeworms

75. Complete the following series. (+1, -0.33)

30, 42, 54, 66, _____

- a. 80
- b. 81
- c. 78
- d. 82

76. The time duration that would elapse between 5:47 p.m of 21st June 2027 (+1, -0.33) and 5:39 p.m. of 22nd June 2028 is:

- a. 365 days 23 hours 52 mins
- b. 366 days 8 mins
- c. 366 days 23 hours 52 mins
- d. 367 days 8 mins

77. Which among the following is a rational number? (+1, -0.33)

- a. $\sqrt[3]{2} - 2$
- b. $\sqrt[3]{8} - 2$
- c. $\sqrt[3]{12} + 1$
- d. $\sqrt[3]{4} + 4$

78. Which of the following elements does NOT belong to group 17? (+1, -0.33)

- a. Bromine
- b. Argon

- c. Chlorine
 - d. Fluorine
-

79. What is twice the value of p if $p = 36 - 2(20 + 12 \div 4 \times 3 - 2 \times 2) + 10$? (+1, -0.33)

- a. -4
 - b. -10
 - c. -2
 - d. -8
-

80. _____ is/are harmful radiation emitted by the sun. (+1, -0.33)

- a. Gamma rays
 - b. Alpha rays
 - c. Ultraviolet radiation
 - d. Infrared radiation
-

81. A shopkeeper multiplied 6245 by 62 instead of 52. How much was his answer greater than the correct answer? (+1, -0.33)

- a. 62450
- b. 62455
- c. 60425
- d. 61455

82. To which block do the elements with atomic number 56 belong? (+1, -0.33)

- a. p
- b. f
- c. d
- d. s

83. Leena can go to her office in two ways also return to her home from the same route. The distance of the first route is 5 km while the distance of the second route is 7 km. For some reasons, she is unable to go to the office for two consecutive days by the same route. If she goes through the first route on Monday, then how many km does she cover the second route that week? (+1, -0.33)

- a. 21 km
- b. 14 km
- c. 42 km
- d. 28 km

84. What was the day of the week on 7th January 2011? (+1, -0.33)

- a. Monday
- b. Friday
- c. Tuesday
- d. Wednesday

85. What would be get when 8 kg 25 g is multiplied by 25? (+1, -0.33)

- a. 200 kg
- b. 200.625 kg
- c. 199.625 kg
- d. 199 kg

86. If LOAD is written as 121514, then what is the code for DEAR? (+1, -0.33)

- a. 94511
- b. 45119
- c. 45218
- d. 45118

87. A hostel had provision for 60 men for 35 days. After 10 days, 15 more men arrived at the hostel. How long would the remaining provision last at the same rate? (+1, -0.33)

- a. 18 days
- b. 15 days
- c. 20 days
- d. 25 days

88. Identify the option that will replace the question mark (?) (+1, -0.33)

Ⓡ	E	E	€	€	⊢	?
⊢	€	Ⓡ	⊢	E	Ⓡ	

Option figure:

A	B	C	D
Ⓡ ⊢	€ E	⊢ Ⓡ	Ⓡ E
E €	⊢ Ⓡ	€ E	⊢ €

- a. D
- b. A
- c. B
- d. C

89. Sukanya walks 2 km towards South and then turns left and walks 500 m. (+1, -0.33)
In which direction is she with respect to her initial position?

- a. North-West
- b. South-West
- c. South-East
- d. North-East

90. If $\cos x + \sin x = \sqrt{2}\cos x$ then the value of $\cot x$ is: (+1, -0.33)

- a. $\sqrt{2} + 1$
- b. 1

c. $\sqrt{2} - 1$

d. $\sqrt{2}$

91. Which of the following is NOT a bryophyte? (+1, -0.33)

a. Marchantia

b. Funaria

c. Chara

d. Riccia

92. When two trains are moving in opposite direction at a speed of 40 km/hr and 32 km/hr respectively, the faster train passes a man sitting in the slower train in 15 seconds. Find the length of the faster train. (+1, -0.33)

a. 120 m

b. 300 m

c. 200 m

d. 100 m

93. Consider the following question and decide which of the statements is sufficient to answer the question. (+1, -0.33)

Shiju has 10 bags that each weigh the same. What is the total weight of the 10 bags?

Statements:

1. One-third of the weight of each bag is 8 kg.
 2. The bags contain rice.
- a. Statement 1 and 2 together are not sufficient
 - b. Statement 1 alone is sufficient
 - c. Either statement 1 or 2 is sufficient
 - d. Statement 2 alone is sufficient

94. Find the L.C.M of $\frac{1}{2}$, $\frac{2}{5}$, $\frac{4}{7}$, and $\frac{6}{17}$. (+1, -0.33)

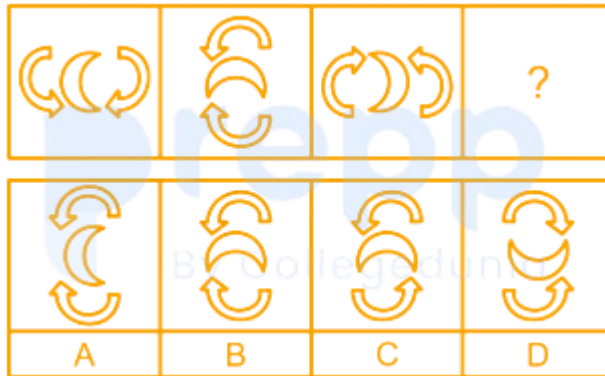
- a. 24
- b. 6
- c. 12
- d. 18

95. How many triangles are there in the following figure? (+1, -0.33)



- a. 20
- b. 34
- c. 30
- d. 14

96. Study the following patterns and decide which pattern will follow next. (+1, -0.33)



- a. C
- b. A
- c. B
- d. D

97. Shubhangi Swaroop became the first-ever female pilot to be inducted into the _____. (+1, -0.33)

- a. Indian R & AW
- b. Indian Air Force
- c. Indian Navy
- d. Indian Army

98. _____ is an ore of mercury. (+1, -0.33)

- a. Magnetite

b. Cinnabar

c. Hematite

d. Bauxite

99. Who was honoured with the Indian Film Personality of 2017 Award at the 48th International Film Festival of India (IFFI)? (+1, -0.33)

a. Shammi Kapoor

b. Akshay Kumar

c. Prabhas

d. Amitabh Bachchan

100. What is the total area of Gujarat? (+1, -0.33)

a. 1,96,204 km²

b. 1,66,024 km²

c. 1,99,724 km²

d. 1,96,024 km²

Answers

1. Answer: a

Explanation:

- Salivary **amylase** is an enzyme present in the human saliva which is **produced by the salivary glands**.
- It helps in the process of digestion as it breaks down complex carbohydrates such as starch into simpler sugars like glucose and maltose.
- It is also called **ptyalin**.

Enzymes	Definition
Lipase	• It is an enzyme that splits fats so the intestines can absorb them. • It hydrolyzes fats like triglycerides into their component fatty acid and glycerol molecules. • It is secreted by Pancreas.
Pepsin	• Pepsin is an enzyme found in the gastric juice that digests proteins. • It was founded by German physiologist Theodor Schwann. • It affects only partial degradation of proteins into smaller units called peptides which are absorbed by the intestines or broken down further by the pancreatic enzymes.
Trypsin	• Trypsin is secreted by the Pancreas. • It is a protein-digesting enzyme present in pancreatic juices secreted into the small intestine during a meal. • The pancreas secretes trypsin is an inactive proenzyme called trypsinogen.

2. Answer: c

Explanation:

- **Diego Maradona**, Former Argentina captain and World Cup-winner, belongs to Argentina.
- **Diego Maradona** was in the news because he was seen smoking a cigar in the stands during Argentina's match, despite smoking and tobacco being banned at all the venues of the FIFA World Cup 2018.

3. Answer: d

Explanation:

Let the number of male and female employees be M and F, respectively.

⇒ Sum of salaries of male employees/Number of male employees = 5200

⇒ Sum of salaries of male employees = 5200M

Now,

⇒ Sum of salaries of female employees/Number of female employees = 4200F

⇒ Sum of salaries of female employees = 4200F

Now,

⇒ Mean = (Sum of salaries of male and female employees)/(Total number of male and female employees)

⇒ 5000 = (5200M + 4200F)/(M + F)

⇒ 5000M + 5000F = 5200M + 4200F

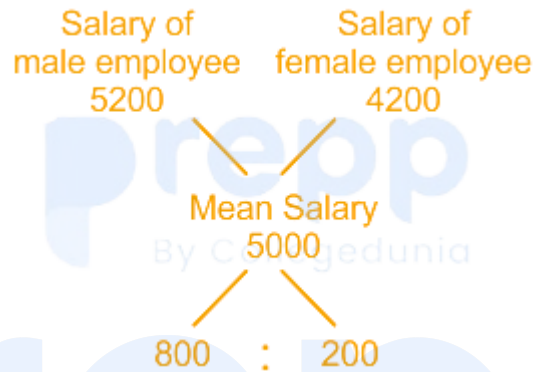
⇒ 800F = 200M

$$\Rightarrow F/M = 1/4$$

Now,

$$\Rightarrow \text{Required \%} = (4/5) \times 100 = 80\%$$

Alternate Method



Ratio of number of male : Ratio of number of female = 4 : 1

$$\text{Percent male in firm} = 4/(4 + 1) \times 100$$

$$\Rightarrow \text{Percent male in firm} = 4/5 \times 100$$

$$\Rightarrow \text{Percent male in firm} = 80\%$$

$\therefore$ Percent of male in the firm is 80%.

4. Answer: d

Explanation:

The positional value table is as follows:

Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The pattern followed here is as follows,



Every letter is assigned to its positional value as per the English alphabetical order.

Similarly,



Hence, "513212513" is the correct answer.

5. Answer: b

Explanation:

- **Viswanathan Anand** defeated Russia's Vladimir Fedoseev by 2-0 score to reclaim the title he had won in 2003 in the final tie-breaker mini-match.
- The 2017 World Rapid Fire Chess Championship played in Riyadh, Saudi Arabia, was won by Viswanathan Anand.
- He was awarded Rajiv Gandhi Khel Ratna Award in 1991 and Padma Vibhushan Award in 2007.
- Viswanathan Anand secured 5th place in the **Shamkir Chess 2019 tournament**, Shamkir, Azerbaijan.

6. Answer: c

Explanation:

Concept:

Kinetic energy is defined as the energy needed to move the body of mass m from one point to another with stated velocity v .

- Kinetic energy is given as:

$$\text{K.E} = \frac{1}{2} \times m v^2$$

Where K.E = Kinetic Energy

M = mass of object

V = Velocity of object

Calculation:

Given that,

$m = 30 \text{ kg}$,

$v = 5 \text{ m/s}$

Now as explained above kinetic energy is given as

$$\therefore \text{K.E} = \frac{1}{2} \times 30 \times 5^2$$

$$\text{K.E} = 375 \text{ J}$$

Therefore, the kinetic energy of the object is 375 J

7. Answer: a

Explanation:

Suppose

$$\Rightarrow p/q = 0.0236363636 \quad \text{-----(1)}$$

Multiplying equation (1) by 100, we get

$$\Rightarrow 100p/q = 2.36363636 \quad \text{-----(2)}$$

Multiplying equation (2) by 100 we get,

$$\Rightarrow 10000p/q = 236.363636 \quad \text{-----(3)}$$

Subtracting equation (2) from (3), we get,

$$\Rightarrow 9900p/q = 234$$

$$\Rightarrow p/q = 234/9900 = 13/550$$

$\therefore$ The required fraction is $13/550$.

8. Answer: c

Explanation:

The correct answer is **Displacement**.

★ Key Points

- The product of velocity and time gives **Displacement**.
- It is the shortest distance between the initial and final position. It is a **vector** quantity i.e. it has both magnitude and direction.
- Distance can't be zero but Displacement is zero in some cases like for example when the person/thing returns to its initial position.
- Similarly, the average speed of a moving body can never be zero, but the average velocity of a moving body can be zero.

9. Answer: b

Explanation:

Let Mika and Mahi ages be a and b years respectively.

Statement 1:

$$\Rightarrow (a + b)/2 = 27$$

$$\Rightarrow a + b = 54 \quad \text{-----(1)}$$

Statement 2:

After 15 years,

$$\Rightarrow (a + 15) = 2(b + 15)$$

$$\Rightarrow a + 15 = 2b + 30$$

$$\Rightarrow a - 2b = 15 \quad \text{-----(2)}$$

By solving equations (1) and (2) both we can get the respective age of Mahi and Mika

$\therefore$ Statement 1 and 2 together are sufficient

10. Answer: a

Explanation:

- $\lambda \times f = c$, Where

λ = Wavelength

f = Frequency

c = Speed of Light

$$\rightarrow \lambda = c/f$$

→ Now, Speed of Light is constant

Therefore, $\lambda \propto 1/f$ i.e Frequency is Inversely proportional to the Wavelength

Hence, If the frequency of a wave is doubled then its wavelength will be half of the original.

11. Answer: c

Explanation:

- Khangchendzonga Biosphere Reserve, also known as **Kanchenjunga National Park**, is located in North-Eastern state Sikkim.
 - Inscribed in the UNESCO World Heritage Sites list on July 17, 2016, it is one of the widest altitudinal ranges of any protected area worldwide.
 - The park gets its name from the mountain **Kanchenjunga**, the **highest mountain peak in India**.
-

12. Answer: d

Explanation:

We have,

$$\Rightarrow 81 - 75 = 6$$

$$\Rightarrow 88 - 81 = 7$$

$$\Rightarrow 96 - 88 = 8$$

By these observations we get,

$$\Rightarrow \text{Next term} = 96 + 9 = 105$$

13. Answer: d

Explanation:

- Sediment does not belong to the given group.
- Mercury, Paraffin and Coconut oil has a definite chemical composition, while Sediment is any matter that can be transported by fluid flow and gets deposited as a layer of solid particles on the bottom or bed of a body of water or other liquid.

14. Answer: c

Explanation:

Here, The Reserve Bank of India is India's central banking institution. Whereas other options are institutes for research and higher education.

Hence, "Reserve Bank of India, Mumbai" is the correct option.

★ Additional Information

Educational institutes' accrediting bodies are Statutory bodies to maintain the quality of education. They are:

1. The National Council for Teacher Education (NCTE)

- This is a national-level statutory body of the Government of India, established in 1995.
- Its objective is to plan the coordinated by development of the teacher education system, regulate, maintain, and monitor norms and standards in teacher education.

2. University Grants Commission (UGC)

- It is a Government of India entity and is responsible for coordination, determination, and maintenance of standards, and release of central grants to the universities.
- Apart from this, the Government of India has also established sixteen central universities in the country, which are totally funded by the UGC.

3. Council for Technical Education (AICTE)

- It was established by an Act of Parliament to develop, promote, and co-ordinate technical education in the country.
- Technical Education broadly covers the field of engineering & technology, architecture & town planning, management, pharmacy, and applied arts & crafts.

4. Council for Agriculture Research (ICAR)

It keeps the information and provides consultancy on agriculture, horticulture, resource management, animal sciences, agricultural engineering, fisheries, agricultural extension, agricultural education, home science, and agricultural communication.

15. Answer: a

Explanation:

- India's first Defence incubators will come up in Hyderabad, which is India's missile development center.
- The T-Hub is India's largest incubator that will be funded through the Ministry's Innovation for Defence Excellence (iDEX) scheme.
- The iDEX will be funded and managed by a Defence Innovation Organisation. Initially, a corpus of ₹. 100 crore has been created by two PSUs--HAL and BEL.

16. Answer: d

Explanation:

Let the capacity of the tank be 28 units. (By taking L.C.M. of 5.6 and 7)

Efficiency of pipe A = $28/5.6 = -5$

Efficiency of pipe B = $28/7 = 4$

Work done by both pipes in 2 hours = $-5 + 4 = -1$ unit

At the last hour, pipe A will work alone, hence 5 units will be done by pipe A.

Remaining work i.e. $28 - 5 = 23$ units are done by Pipe A and Pipe B.

$\therefore$ Time taken = $23 \times 2 = 46$ hours

$\therefore$ It will take $46 + 1 = 47$ hours to empty the tank.

17. Answer: d**Explanation:**

- A substance whose smell varies when it is mixed with an acidic or basic solution is known as an **olfactory indicator**.
- These type of substances are used to differentiate or check the acidic or basic solution.
- **Vanilla** is one of the examples of olfactory indicators as It loses its smell when added to the basic solution and retains its smell in the acidic solution.

18. Answer: d**Explanation:**

In the 21st -century internet is expanding exponentially and contains a lot of information that should not be viewed by children. Argument I holds strong on the

note that children should “know how to use the Internet responsibly”. While “exploring on their own” will definitely help them to “learn a lot”, it can mislead children and influence them in a wrong way. Thus argument II does not hold strong.

Hence “only argument I is strong”.

19. Answer: c

Explanation:

The pattern followed here is as follows,

Here, each term is a series. In each series the number is followed by its square. and this is repeated generally four times depending upon the number of digits required in each term.. Also, the number if digits in each term are in increasing order. [They are 5, 6(+1), 8(+2) and 11(+3) respectively]



From the pattern followed “235656” is the wrong term in the series.

The correct series is as follows,



Hence, “235656” is the wrong term in the series.

20. Answer: b

Explanation:

$$\text{Simple interest} = (P \times R \times N)/100 = (1640 \times 7.5 \times 6)/100 = \text{Rs. 738}$$

21. Answer: b

Explanation:

Let the rate of interest be $r\%$.

$$\Rightarrow \text{Compounded Amount} = \text{Principal} \{1 + (\text{rate}/100)\}^{\text{time}}$$

$$\Rightarrow 7840 = 6250 \{1 + (r/100)\}^2$$

$$\Rightarrow 784/625 = \{1 + (r/100)\}^2$$

$$\Rightarrow (28/25)^2 = \{1 + (r/100)\}^2$$

$$\Rightarrow 28/25 = 1 + (r/100)$$

$$\Rightarrow r = 12\%$$

$\therefore$ The rate of interest is 12%.

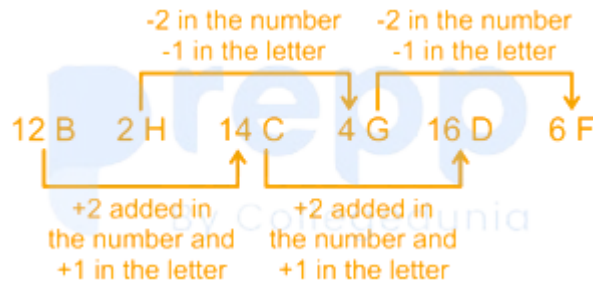
22. Answer: b

Explanation:

The positional Value table is as follows:

Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The pattern followed here is as follows,

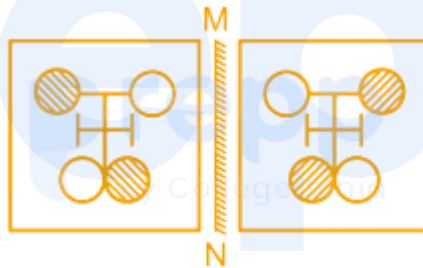


Hence, "6F" is the correct answer.

23. Answer: a

Explanation:

The mirror image of the given figure is as follows,



In mirror image the image is flipped on vertical axis. So, the changes will be from left to right. Parts of images which are near the mirror will be near the mirror but now to the right of mirror.

Hence, "option figure B" is the correct answer.

24. Answer: b

Explanation:

- Arun Jaitley proposed the construction of a new tunnel through the Sela pass in Arunachal Pradesh.

- The tunnel is to be constructed under **Sela Pass**. Earlier Rohtang tunnel was built which has ensured all-weather connectivity to the Ladakh region and "Zojila Pass tunnel" is being constructed.
- With increased friction with China along the border, the government is focussing on improving connectivity in such areas.

25. Answer: d

Explanation:

- Work Done = Force $\times$ Distance (in the direction of the force)

$$1000 \text{ J} = 200 \text{ N} \times D$$

$$D = 1000/200$$

$$D = 5 \text{ m}$$

- Therefore, the distance covered by the elevator is 5 meters.

26. Answer: b

Explanation:

The logic followed here is:

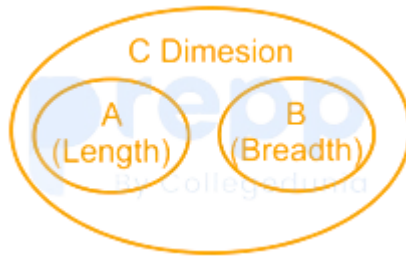
The relationship between length, breadth and Dimension is as follows:

All length are dimensions.

All breadth are dimension.

No length is breadth.

Thus, the Venn diagram is as follows,



Hence, "option figure 2" is the correct answer.

27. Answer: b

Explanation:

From the statement given "Should the Integrity of Wildlife Sanctuaries be maintained?", argument I holds strong because it gives reason that we should "give endangered species a special place to live in" and that will "promote ecological balance".

Argument II talks about generating income. That piece of information is not given in the statement. The fact is that the main purpose of wildlife sanctuary is to protect endangered species and not to generate income. So, the argument II does not hold strong.

Hence, "Only argument I is a 'strong' argument"

28. Answer: c

Explanation:

Given:

Cone diameter = 14 cm, Height = 24 cm

Cube of side = 14 cm

Formula used:

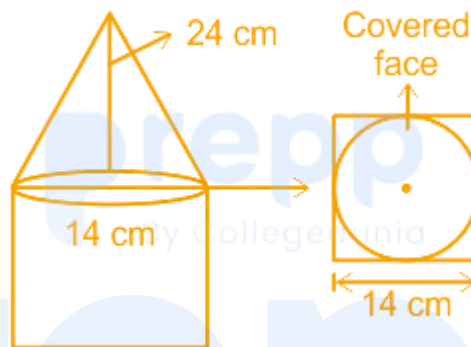
Curved surface area of cone = $\pi \times \text{Radius} \times \text{Slant height}$

Surface area of cube = $6 \times \text{side}^2$

Slant height = $\sqrt{(\text{height}^2 + \text{radius}^2)}$

Area of circle = $\pi \times \text{radius}^2$

Calculation:



Slant height = $\sqrt{(\text{height}^2 + \text{radius}^2)} = \sqrt{(24^2 + 7^2)} = 25$

Curved surface area of cone = $\pi \times \text{Radius} \times \text{Slant height} = \left(\frac{22}{7}\right) \times 7 \times 25 = 550 \text{ cm}^2$

Surface area of cube = $6 \times \text{side}^2 = 6 \times (14)^2 = 1176 \text{ cm}^2$

But some area covered by cone's base = $\pi \times \text{radius}^2$

$\Rightarrow \left(\frac{22}{7}\right) \times 7^2 = 154 \text{ cm}^2$

$\Rightarrow \text{Total surface area} = 550 + 1176 - 154 = 1,572 \text{ cm}^2$

29. Answer: c

Explanation:

The correct answer is option 3, i.e. Atharva Veda.

- The Atharva Veda is one of the four Vedas which mentions about magical rituals and charms.
- The Atharva Veda is sometimes called the "Veda of magical formulas", an epithet declared to be incorrect by other scholars.
- The Samhita layer of the text represents a developing 2nd millennium BCE tradition of magico-religious rites to address superstitious anxiety, spells to remove maladies believed to be caused by demons, and herbs- and nature-derived potions as medicine.
- Vedas are the collection of Hindu and other ancient religious texts written in ancient India between 1500–1000 BCE.
- Rigveda is the oldest Veda of all.

30. Answer: d

Explanation:

- Transportation is the process of carrying goods and people from one place to another.
- Rail Transport is the movement of goods by means of railways.
- In the Indian economy, Railways plays a very important role. It is the principal means of transportation.
- It binds the economic life of the country and accelerates the development of agriculture and industry.

31. Answer: c

Explanation:

- The mole is the amount of substance of a system which contains as many elementary entities as there are atoms in 0.012 kilograms of carbon-12, Its symbol is "mol".
- No. of particles (atoms, molecules, ions) present in one mole = $6.022140857 \times 10^{23}$

- It is also known as **Avogadro Constant**.

Molecular Mass of MgCO_3				
Element/Atom	No. of Atoms	Atomic Number	Atomic Mass	Total Atomic Mass
Magnesium (Mg)	1	12	24.30	24.30
Carbon (C)	1	6	12	12
Oxygen (O)	3	8	16	48
Total Molecular Mass of Magnesium carbonate (MgCO_3)				84.30

→ 84.30 gm of MgCO_3 contains 24.30 gm or 1 mole of Magnesium (Mg)

→ By the unitary method,

84.30 g → 1 mole

1 g → 1 mole / 84.30 g

21 g → (1-mole × 21 g) / 84.30 g

= 0.24911 $\approx$ 0.25 moles

Therefore, 21 g of MgCO_3 will have 0.25 moles of magnesium.

32. Answer: c

Explanation:

Short trick:

$$\text{Cost price} = 689/1.06 = \text{Rs. } 650$$

Detailed solution:

$$\Rightarrow \text{Profit \%} = \{(\text{Selling price}/\text{Cost price}) - 1\} \times 100$$

$$\Rightarrow 6 = \{(689/\text{Cost price}) - 1\} \times 100$$

$$\Rightarrow 0.06 = (689/\text{Cost price}) - 1$$

$$\Rightarrow 1.06 = 689/\text{Cost price}$$

$$\Rightarrow \text{Cost price} = 689/1.06$$

$$\Rightarrow \text{Cost price} = \text{Rs. } 650$$

33. Answer: b

Explanation:

- The **flower** is the reproductive unit in angiosperms as it possesses the male and female reproductive organs.
- The **Pistil** or **Carpel** is the female reproductive organ and it consists of:

Stigma - receives the pollen

Ovary - where the egg is produced

Style - connects the stigma and ovary.

- **Stamen** is the male reproductive organ and it contains a long filament and an anther which produces pollen.

34. Answer: a

Explanation:

All the words given refer to some kind of physical activity except the word "think", which is related to mental activity.

Hence, "Think" does not belong to the given group.

35. Answer: d

Explanation:

- Shri Nitin Gadkari launched a mobile App Sukahd Yatra and a Toll-free number.
- The app has been developed by NHAI (National Highways Authority of India), to empower the Highway users.
- A toll-free number, 1033, has also been launched, which will enable users to report an emergency condition, or highway-related feedback, across the highway.

36. Answer: a

Explanation:

The Positional; Value of the English alphabets is as follows:

Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

A	B	C	D
6F	P14	U21	W23

Here every letter is with the positional value of its own except "P14". The positional value of P is 16.

Hence, "B" is the correct answer.

37. Answer: d

Explanation:

The correct answer is None of the above.

★ Key Points

- The lens formula is $\frac{1}{v} - \frac{1}{u} = \frac{1}{f}$ where f is the focal length, u is the distance of the object, v is the distance of the image. Options A and C are the same and are wrong. Option B is also incorrect according to the right formulae.

Concept:

- Lens: The transparent curved surface which is used to refract the light and make an image of any object placed in front of it is called a lens.
 - Convex lens: A lens having two spherical surfaces, bulging outwards is called a double convex lens (or simply convex lens).
 - It is thicker in the middle as compared to the edges.
 - Convex lenses converge light rays and hence, convex lenses are also called converging lenses.
- The lens formula is given by:

$$\frac{1}{v} - \frac{1}{u} = \frac{1}{f}$$

Where V = Distance of image from the optical center, U = Distance of object from the optical center.

★ Mistake Points

Mirror Formula: The following formula is known as the mirror formula, which represents the relation between focal length, image distance, and object distance

$$\frac{1}{f} = \frac{1}{u} + \frac{1}{v}$$

38. Answer: b

Explanation:

Total distance travelled by the object = $15 + 16 = 31$ m

Total time taken = $4\text{s} + 2\text{s} = 6\text{s}$

Average speed = total distance travelled/total time taken

= $31/6$

= 5.17 m/s

The average speed of the the object is 5.17 m/s.

39. Answer: b

Explanation:

Calculation:

As 5 is width for five consecutive classes.

⇒ $10 - 15$

⇒ $15 - 20$

⇒ $20 - 25$

$$\Rightarrow 25 - 30$$

$$\Rightarrow 30 - 35$$

$\therefore$ 35 is the upper-class limit of the highest class.

Given:

★ Alternate Method

Lower class limit = 10

Width of each class = 5

Calculation:

Width till the upper class limit for a frequency distribution having 5 classes

$$\Rightarrow 5 \times 5 = 25$$

The upper class limit of highest class = $10 + 25 = 35$

$\therefore$ 35 is the upper-class limit of the highest class.

40. Answer: b

Explanation:

As 2000 is divisible by 400 the number of odd days is 0.

Number of leap years till 2019 = 4 (2004, 2008, 2012 and 2016)

Number of ordinary years till 2019 = 15

Number of odd days till 2020 = $15 + (4 \times 2) = 23$ odd days

Number of odd days in January 2020 = 3

Number of odd days in February 2020 (2020 is the leap year) = 1

Number of odd days in March 2020 = 3

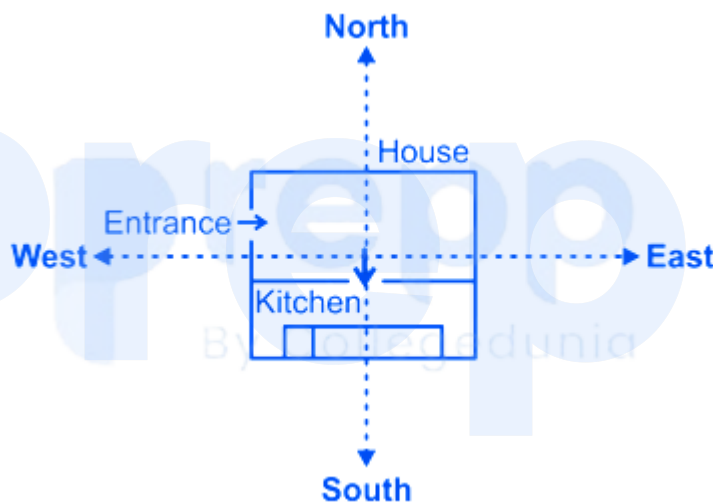
Total number of odd days till 19th April 2020 = $23 + 3 + 3 + 1 + 19 = 49$ odd days = 0 odd days

So, the day on 19th April 2020 is Sunday.

41. Answer: a

Explanation:

The following figure shows the schematic representation of the given data,



Clearly, the kitchen is in the south direction with respect to the entrance.

Hence, "South" is the correct answer.

42. Answer: d

Explanation:

The logic followed here is:

Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The pattern followed here is as follows,



Every letter is assigned to its positional value as per the English alphabetical order.

Similarly,



Hence, "20185144" is the correct answer.

43. Answer: d

Explanation:

$$\begin{aligned}
 & 22 - [23 - \{24 - (27 - \overline{29 - 30})\}] \\
 \Rightarrow & 22 - [23 - \{24 - (27 - (-1))\}] \\
 \Rightarrow & 22 - [23 - \{24 - 28\}] \\
 \Rightarrow & 22 - [23 - (-4)] \\
 \Rightarrow & 22 - 27 \\
 \Rightarrow & -5
 \end{aligned}$$

44. Answer: c

Explanation:

- Tapi river flows through Surat, Gujrat.
- Tapi discharges its water into the Arabian Sea. It rises in the Gawilgarh Hills of the Deccan plateau in Madhya Pradesh and then flows westward.
- Surat City is also called the **Diamond City of India**.
- **Ukai dam** is located on Tapi River in Gujarat.
- Mahanadi flows through Odisha and Chhattisgarh.
- Kim is a river in Gujarat.
- Rupen river flows through Mehsana district of Gujarat.

45. Answer: c

Explanation:

⇒ Number of diagonal in a n-gon = $\{n(n - 3)\}/2$

⇒ Number of diagonal in a 26-gon = $\{26(26 - 3)\}/2 = 299$

46. Answer: b

Explanation:

- Fuel formed under the earth's surface by the decomposition of organic matter is called **Fossil fuel**.
- Sedimentary rocks are a source of fossil fuels.
- The dead and decaying animals and plants get buried under layers of silt and sediments over millions of years which eventually harden and turn into sedimentary rocks.

- These rocks put pressure and heat on the organic matter which then turns into fossil fuels.

47. Answer: b

Explanation:

CONCEPT:

- When an electric current is passed through a conductor, the conductor becomes hot after some time and produce heat.
- This happens due to the conversion of some electric energy passing through the conductor into heat energy. This effect of electric current is called the heating effect of the current or Joule heating effect.
- The appliances based on the heating effect of electric current work on both AC and DC supply.
- The amount of heat liberated can be given as
- $H = \frac{Pt}{4.2} \text{ cal} \Rightarrow H = W = Pt = I^2 R \text{ joule}$

Electric current passing through conductor = IT

The power dissipated across copper coil = P

Work done by current = W

The resistance of wire = R

Heat dissipated because of current = H

time period = t

CALCULATION:

Given data

$\Rightarrow$ The resistance of a coil = 418 ohms

$\Rightarrow$ Amount of time the current is passed = $1 \times 60 = 60 \text{ sec}$

⇒ Current Passed = 0.3 A

→ As

$H = I^2 RT$ where,

H = Heat Generated in Joules

I = Current in Amperes

R = Resistance of coil in Ohms

T = time in seconds

→ $H = (0.3)^2 \times 418 \times 60$

= 2257.2 joules

→ 1 calorie = 4.184 joules or

4.184 joules = 1 calorie

1 Joules = 1 / 4.184 calorie

2257.2 joules = $(1 / 4.184) \times 2257.2$ calorie

= 539.48 ≈ 540 calorie

The heat energy generated is 540 calorie

48. Answer: a

Explanation:

- Tin (Sn) is added with copper and zinc to form bronze.
- Bronze is a metallic alloy of copper and tin. Its composition is 90% copper and 10% tin.
- The Atomic number of Sn (Tin) is 50.

NOTE: Sometimes Bronze may also contain manganese, aluminum, nickel, phosphorus, silicon, arsenic, or zinc but main components of bronze are Copper and Tin.

49. Answer: a

Explanation:

$$\Rightarrow 15 \times 3 - 9 \times (5^2 \div 5) \div 5 \div (1 \div 3) + 10$$

$$\Rightarrow 15 \times 3 - 9 \times 5 \div 5 \div (1/3) + 10$$

$$\Rightarrow 15 \times 3 - 9 \times 1 \times 3 + 10$$

$$\Rightarrow 45 - 27 + 10$$

$$\Rightarrow 28$$

50. Answer: b

Explanation:

March endings are yearly closing days as the economic year ends on the last day of March. In the statement, the Branch Manager is saying that "March endings are always hectic". Thus, we can assume that "There is more work at the end of March".

There is no information provided in the statement that supports the assumption that "much work gets piled up due to lack of timely work". Hence, "Only assumption I is implicit".

51. Answer: b

Explanation:

The positional value table is as follows:

Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The pattern followed here is as follows,

R	A	R	E
↓	↓	↓	↓
18	1	18	5

Every letter is assigned to its positional value as per the English alphabetical order.

Similarly,

Y	E	L	L
↓	↓	↓	↓
25	5	12	12

Hence, "2551212" is the correct answer.

52. Answer: a

Explanation:

Position values of the letters according to the English alphabet series.

Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The pattern followed here is that

- The positional value of the letter is kept **before the letter**. Except "O15" where the positional value is kept **after the letter**.

The pattern here is:

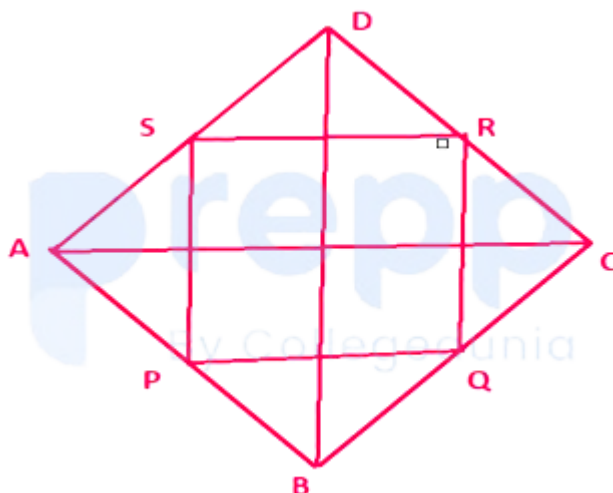
	Position Value	Letter
A	9	I
B	O	15
C	5	E
D	21	U

- **Positional Value > Letter**
- While the pattern in option 1 is:
- **Letter > Positional Value**

Hence, "O15" is the odd one.

53. Answer: b

Explanation:



ABCD is a rhombus with $AC = 12$ cm and $BD = 16$ cm.

P, Q, R, and S are the mid-points of the sides AB, BC, CD, and AD respectively.

We have to find the area of the quadrilateral PQRS formed by joining the mid-points of the rhombus ABCD.

In $\triangle ABD$, S is the mid-point of AD and P is the mid-point of AB.

$\Rightarrow SP \parallel BD$

And, $SP = \frac{1}{2}$ of BD ($\because$ Mid-point theorem)

$\Rightarrow SP = \frac{1}{2} \times 16 = 8$ cm

In $\triangle BCD$, R is the mid-point of CD and Q is the mid-point of BC.

$\Rightarrow QR \parallel BD$ and $QR = \frac{1}{2}$ of BD

$\Rightarrow QR = \frac{1}{2} \times 16 = 8$ cm

$SP \parallel BD$ and $QR \parallel BD \Rightarrow SP \parallel QR$

Also, $SP = QR = 8$ cm

$\Rightarrow SPQR$ is a parallelogram.

Similarly, $PQ = SR = \frac{1}{2}$ of AC

$\Rightarrow PQ = SR = \frac{1}{2} \times 12 = 6$ cm

Now,

$BD \parallel SP \Rightarrow SN \parallel OM$

$AC \parallel RS \Rightarrow ON \parallel MS$

$\Rightarrow NOMS$ is a parallelogram.

$\angle AOD = 90^\circ$ ($\because$ Diagonals of a parallelogram bisect at right angle)

$\Rightarrow \angle MSN = 90^\circ$ ($\because$ $NOMS$ is a parallelogram)

⇒ PQRS is a rectangle.

Area of rectangle PQRS = $SP \times PQ = 8 \times 6 = 48$ sq cm

So, the area of the quadrilateral formed by joining the mid-points of the sides of rhombus ABCD is 48 sq cm.

54. Answer: c

Explanation:

- Thang-ta is a martial art form mainly practiced in the state of Manipur.
- Here Thang refers to a 'Sword' and Ta refers to 'Spear'.
- In this martial art form when unarmed combat is involved or no weapon is used while performing it, then it is known as **Sarit Sarak**.
- It is also known as Huyen Lallong and Chebi Gatka.

55. Answer: b

Explanation:

- Sexual reproduction allows for a greater genetic diversity through the process of Fertilisation.
- It involves the meiosis process which means a cell doubling its DNA, shuffling its genes and then dividing the shuffled DNA among four cells.
- Each resulting cell after dividing the shuffled DNA, or gamete, resulting from meiosis has only half the amount of DNA as the parent cell.
- Therefore, in order to form a new organism, two gametes - the sex cells, sperm, and egg - must fuse, further mixing the genes to produce more genetic diversity.

56. Answer: b

Explanation:

- Dravida Munnetra Kazhagam (DMK) and All India Anna Dravida Munnetra Kazhagam (AIADMK) are the regional parties mainly belonging to Tamil Nadu state.

DMK	AIADMK
→ C.N. Annadurai in the year 1949 founded the Dravida Munnetra Kazhagam (DMK) party. → It's a state political party active in Tamil Nadu and Puducherry. → The formation of the DMK party took place due to the breakdown of the Dravidar Kazhagam. → It was the first party other than the Indian National Congress to form government independently in a state.	→ All India Anna Dravida Munnetra Kazhagam (AIADMK) is a Dravidian party → It was founded by M. G. Ramachandran on 17 October 1972 → It was formed as a breakaway faction of the Dravida Munnetra Kazhagam (DMK).

57. Answer: d

Explanation:

- **Aqua regia** is a mixture of concentrated nitric acid and concentrated hydrochloric acid, optimally in a molar ratio of **1:3**.
- It is a yellow-orange fuming liquid and was so named because it can dissolve the noble metals gold and platinum.

58. Answer: a

Explanation:

- $\text{Fe} + \text{CuSO}_4 \rightarrow \text{FeSO}_4 + \text{Cu}$ is an example of displacement reaction since in this reaction iron being more reactive than copper displaces copper from copper sulphate (CuSO_4).

Displacement reaction	When a more reactive element displaces a less reactive element from its compound then that is known as displacement reaction. Both metals and nonmetals take part in displacement reactions E.g - Thermite Welding, Steelmaking
Combustion reaction	Burning of any substance in the presence of Air/ Oxygen is called Combustion Reaction E.g - Burning of coal or wood, Gasoline in cars

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59. Answer: c

Explanation:

⇒ Profit made from selling the other brand = $(100 - 45)\%$ of total profit = 55% of 6000 = Rs. 3300

60. Answer: b

Explanation:

Option 2 is correct, i.e. 1875.

- The **Theosophical Society** was **founded** by Madame **H. P. Blavatsky** and Colonel Olcott in **New York in 1875**.
- In **1882**, the headquarters of the Society were established in Adyar, near **Madras (now Chennai)** in India.
- It is an unsectarian body of seekers after Truth, who endeavour to promote Brotherhood and strive to serve humanity.

Link: <http://www.open.ac.uk/researchprojects/makingbritain/content/theosophical-society>

61. Answer: b

Explanation:

The minimum possible Venn diagram of the given statements,



Conclusions:

1. Some raccoons are parrots → False (it is possible but not definite)
2. All parrots are racoons → False (it is possible but not definite)

Hence, None of the conclusions follows.

62. Answer: a

Explanation:

- PCA Stands for Prompt corrective action.

- The **Reserve Bank of India** has issued a Prompt Corrective Action framework to maintain the sound financial health of banks.
- It facilitates banks in breach of risk thresholds for identified areas of monitoring, such as asset quality, capital, and profitability, to take corrective measures.
- The RBI, through the corrective framework, encourages banks to abstain from riskier activities.

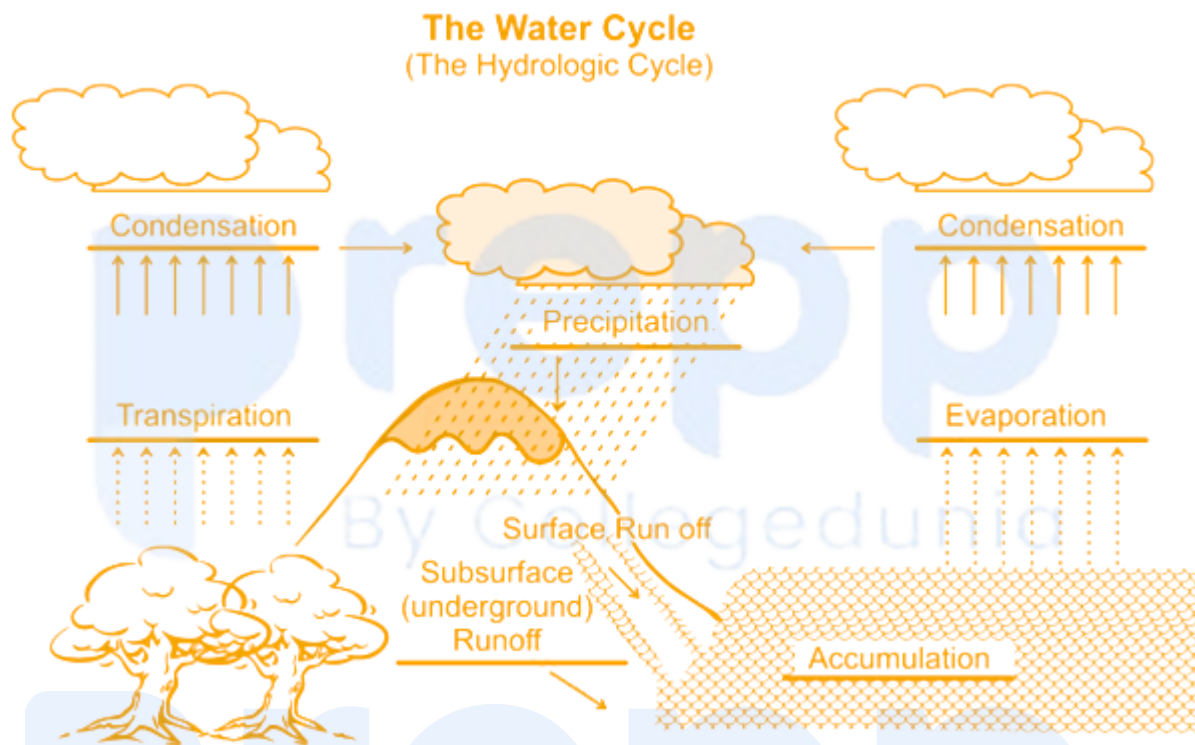
63. Answer: b

Explanation:

★ Key Points

Evaporation:

- Evaporation is the conversion of liquid into its vapour, below the boiling point of the liquid.
- During evaporation, a small fraction of particles at the surface, having higher kinetic energy, is able to break away from the forces of attraction of other particles and gets converted into vapour.
- Evaporation of water generally occurs at all temperatures.
- It is the process of transformation of water from liquid to gas phase when it moves from the ground or bodies of water into the overlying atmosphere.
- The primary source of energy for evaporation is solar radiation.



Boiling:

- Boiling is the process in which a liquid is converted into its vapour when heated to its boiling point.

★ Important Points

Evaporation	Boiling
Surface phenomenon.	Bulk phenomenon.
Slow process.	Quick process.
Takes place at all temperatures.	Takes place at a specific temperature - boiling point.
No bubbles formed.	Bubbles are formed.
Energy is absorbed from the surroundings.	An energy source is needed.

Thus, e vaporation of water occurs at all temperatures.

64. Answer: d

Explanation:

Concept:

- Weight is defined as the force of gravity on an object.
- It is denoted by the formula:
- $W = mg$,
- Since weight is actually a force, the S.I. unit of weight is Newton.

where

W = Weight,

m = Mass of the object

g = Gravitational Acceleration

Calculation:

Given that,

mass of object, $m = 10$ kg

And from the above explanation, we can see that

$$W = 10 \times 9.8$$

$$W = 98 \text{ N}$$

Therefore, the weight of the object on earth will be 98 N

65. Answer: a

Explanation:

Let the distance be x km

$\Rightarrow$ Time taken to go to the city from home = distance/speed = $x/6$ hr

$\Rightarrow$ Time taken to go to home from city = distance/speed = $x/5$ hr

$\Rightarrow$ Total time taken = $(x/6) + (x/5) = (11x/30)$ hrs

According to question,

$\Rightarrow (11x/30) = 33/2$

$\Rightarrow x = (33 \times 30) / (2 \times 11)$

$\Rightarrow x = 45$

$\therefore$ The distance between the city and home is 45 km

66. Answer: c

Explanation:

Given : Leela has 4 pens of 3 different colours.

Statement I: 2 pens are of different colours.

This statement gives information about 2 pens without specifying their colours and hence, is not sufficient.

Statement II. The colour of 2 pens is the same which is red.

From statement II, we get to know that 2 pens out of the 4 pens with Leela are of red colour

We are already given that Leela has 4 pens of 3 different colours. This means that out of the remaining 2 pens, exactly 1 pen must be of blue colour. So, statement II alone is sufficient to answer the question.

Hence, **statement II alone is sufficient to answer the question.**

67. Answer: d

Explanation:

CONCEPT:

- Force : The interaction which after applying on a body changes or try to change the state of motion or state of rest is called force.
- Force is denoted by F and the SI unit is Newton (N).

$$\text{Force (F)} = \text{Mass (m)} \times \text{acceleration (a)}$$

where, F = force

m = mass of the body

a = acceleration

Calculation:

Given that,

Mass of the bullet, $m = 12 \text{ g} = 12/1000 = 0.012 \text{ kg}$

Time taken, $t = 0.006 \text{ seconds}$

Final velocity, $v = 300 \text{ m/s}$

Initial velocity, $u = 0 \text{ m/s}$

From the above explanation, we can see that force exerted on barrel will be

$$F = m \times a$$

Here, acceleration = (final velocity - initial velocity)/time

$$a = (v - u) / t$$

$$\rightarrow F = m \times a = m \times (v - u) / t$$

$$= 0.012 \times (300 - 0)/0.006$$

$$= 600 \text{ N}$$

- So, 600 N of the force is exerted on the bullet by the rifle

68. Answer: a

Explanation:

- Krishna Sobti was awarded the 53rd Jnanpith Award for the year 2017.
- She was the 8th woman to win this award.
- She was an essayist and a Hindi fiction writer.
- She was known for experimenting with new writing styles.
- She passed away in January 2019.

69. Answer: d

Explanation:

From the statement “the school management has announced the addition of music and art session to each standard”, we can assume that “the management wants to create a holistic approach to learning”. Because the holistic approach to learning refers to addressing the whole person, including their physical, mental, and emotional health. Assumption II talks about giving a foundation to learn arts which is also true.

Hence, Both assumptions I and II are implicit

70. Answer: d

Explanation:

- The Report on Indian constitutional reforms, commonly known as the Montagu-Chelmsford Report was published in **1918**.
- The Government of India Act 1919 led to the creation of the Post “High Commissioner for India”.
- It was popularly known as Montagu-Chelmsford Reforms 1919.
- The main feature of this act was Dyarchy i.e dual government in which the Provincial subjects are divided into two subjects namely Reserved Subjects and Transferred Subjects.
- Reserved subjects were to be administered by the Governor and his council whereas the Transferred subjects by Governor and Council of Ministers.

71. Answer: d

Explanation:

$$\Rightarrow \text{Red : green} = 5 : 11 = 15 : 33$$

$$\Rightarrow \text{Green : Red} = 33 : 15$$

Now,

$$\Rightarrow \text{Pink : Red} = 7 : 15$$

$$\Rightarrow \text{Red : Pink} = 15 : 7$$

So,

$$\Rightarrow \text{Green : Pink} = 33 : 7$$

72. Answer: c

Explanation:

- Golf player Shubhankar Sharma became the youngest Indian golfer to win on the European Tour by six years

- He also became the first Indian to emerge as the '**Sir Henry Cotton Rookie of the Year 2018**' on the European Tour and the youngest Indian to win the '**Asian Tour Order of Merit**' on 8 December 2018.
 - Before him, Jyoti Randhawa (2002), Arjun Atwal (2003), Jeev Milkha Singh (2006 and 2008), and Anirban Lahiri (2015) won the 'Asian Tour Order of Merit'.
-

73. Answer: d

Explanation:

- **Mahendra Singh Dhoni** is the brand ambassador of gaming platform Dream 11 app.
 - It is a platform which allows users to play fantasy sports such as cricket, football, basketball, etc.
 - The gaming platform has a current user base of 2 crore sports fans playing fantasy cricket, football, kabaddi, and NBA.
-

74. Answer: a

Explanation:

- **Lymphatic Filariasis** commonly known as **Elephantiasis** is one of the oldest tropical Diseases which is caused by **Filarial worms**.
 - Filarial worms are the human parasitic roundworm known as **Wuchereria Bancrofti**.
 - **Elephantiasis** is spread by a mosquito named **Culex**, which mainly grows in dirty accumulated water.
-

75. Answer: c

Explanation:

We have,

$$\Rightarrow 42 - 30 = 12$$

$$\Rightarrow 54 - 42 = 12$$

$$\Rightarrow 66 - 54 = 12$$

So, by this observation we get,

$$\Rightarrow \text{Next term} = 66 + 12 = 78$$

76. Answer: c

Explanation:

We know that 1 day added in the leap year, 2028 is the leap year.

Therefore total number of days from 5:47 p.m 21st June 2027 to 5:47 p.m 21st June 2028 = 366 days (365 + 1 leap day)

Now from 5:47 p.m 21st June 2028 to 5:47 p.m 22nd June 2028 = 1 day $\Rightarrow$ 24 hrs.

But we have given the time till 5:39 pm on 22nd June 2028 $\Rightarrow$ 8 min. less that 24 hrs = 24 hrs – 8 min.

= 23 hrs 52 min.

Therefore the total time duration that will elapse between 5:47 p.m of 21st June 2027 and 5:39 p.m. of 22nd June 2028 is 366 days 23 hours 52 mins.

Hence, "366 days 23 hours 52 mins" is the correct answer.

77. Answer: b

Explanation:

We have,

$$\Rightarrow (8)^{(1/3)} - 2 = (2^3)^{(1/3)} - 2 = 2 - 2 = 0 \text{ which is a rational number}$$

78. Answer: b

Explanation:

- Argon is a gas from group 18 called noble gases which are highly unreactive.
- The Halogens are the elements belonging to Group 17 in the periodic table.

Element Name	Symbol	Atomic Number
Fluorine	F	9
Chlorine	Cl	17
Bromine	Br	35
Iodine	I	53
Astatine	At	85

79. Answer: d

Explanation:

By BODMAS rule,

$$\Rightarrow p = 36 - 2(20 + 12 \div 4 \times 3 - 2 \times 2) + 10$$

$$\Rightarrow p = 36 - 2(20 + 3 \times 3 - 2 \times 2) + 10$$

$$\Rightarrow p = 36 - 2(20 + 9 - 4) + 10$$

$$\Rightarrow p = 36 - 2 \times 25 + 10$$

$$\Rightarrow p = 36 - 50 + 10$$

$$\Rightarrow p = -4$$

$$\Rightarrow 2p = -8$$

80. Answer: c

Explanation:

- Ultraviolet radiations are harmful radiations emitted by the sun.
- Exposure to ultraviolet (UV) radiation is responsible for most skin cancers.
- There are three types of UV rays: ultraviolet A (UVA), ultraviolet B (UVB), and ultraviolet C (UVC).
- It is the most abundant source of solar radiation at the earth's surface and penetrates beyond the top layer of human skin.

81. Answer: a

Explanation:

$$\Rightarrow \text{Required difference} = 6245 \times (62 - 52) = 6245 \times 10 = 62450$$

82. Answer: d

Explanation:

- Atomic number 56, Barium belongs to s – block elements.
- Electronic configuration for the **Barium** $[\text{Xe}]6s^2$
- Modern Periodic Table is classified into the following elements – p-block, s-block, d-block, and f-block.
- s-block elements include alkali metals and alkaline earth metals.

Table: Modern Periodic table

Legend:

- Alkali metals
- Alkaline Earth Metals
- Halogens
- Nobel gases

The zig zag line separates the metals from the non metals

GROUP NUMBER

PERIODS

Transition Metals

GROUP NUMBER

GROUP NUMBER		GROUP NUMBER																GROUP NUMBER	
1 2																		13 14 15 16 17 18	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
H	He	Li	Be	Transition Metals								B	C	N	O	F	Ne		
Na	Mg	Al	Si	P	S	Cl	Ar												
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr		
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe		
Cs	Ba	La*	Hf	Ta	E	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn		
Fr	Ra	Ac**	Rf	Db	Sg	Bh	Hs	Mt	Ds	Rg	Cn	Uut	Fl	Mc	Lv	Ts	Og		

*Lanthanoides 6

58	59	60	61	62	63	64	65	66	67	68	69	70	71
Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu

**Actinoides 7

90	91	92	93	94	95	96	97	98	99	100	101	102	103
Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr

83. Answer: c

Explanation:

On Monday = 5 km (First route)

On Tuesday = 7 km (Second route)

On Wednesday = 5 km (First route)

On Thursday = 7 km (Second route)

On Friday = 5 km (First route)

On Saturday = 7 km (Second route)

Note: If there is holiday on Sunday, Leena didn't have to cover the distance. If not, she goes to office through the first route. i.e. 5 km

Since the route covered by her is from both the sides

$\therefore$ Distance covered by Leena through second route that week = $(7 + 7 + 7) \times 2 = 42$ km

84. Answer: b

Explanation:

The logic followed here is:

As 2000 is divisible by 400 the number of odd days is 0.

Number of leap years till 2010 = 2 (2004, and 2008)

Number of ordinary years till 2010 = 8

Number of odd days till 2011 = $8 + (2 \times 2) = 12$ odd days

Total number of odd days till 7th January 2011 = $12 + 7 = 19$ odd days = 5 odd days

So, the day on 7th January 2011 is Friday.

85. Answer: b

Explanation:

$8 \text{ kg } 25 \text{ g} = 8 \times 1000 + 25 = 8025 \text{ g}$

$8025 \text{ g} \times 25 = 200625 \text{ g} = 200625/1000 \text{ kg} = 200.625 \text{ kg}$

86. Answer: d

Explanation:

The positional Value table is as follows:

Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The pattern followed here is as follows,

L O A D
 ↓ ↓ ↓ ↓
 12 15 1 4

Every letter is coded as its positional value as per the English alphabetical order.

Similarly,

D E A R
 ↓ ↓ ↓ ↓
 4 5 1 18

Hence, "45118" is the correct answer.

87. Answer: c

Explanation:

$$\Rightarrow \text{Total provision} = 60 \times 35 = 2100$$

$$\Rightarrow \text{Provision used in 10 days} = 10 \times 60 = 600$$

⇒ Remaining provision = $2100 - 600 = 1500$

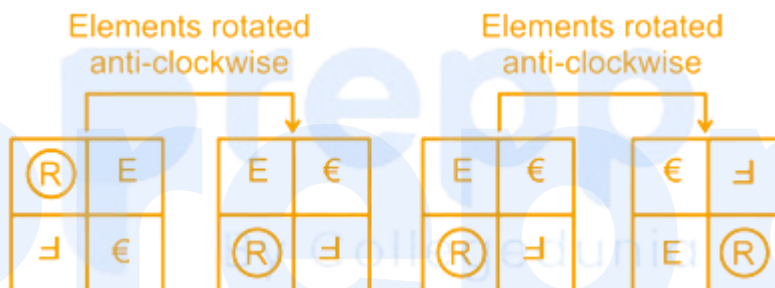
⇒ Total man who will use the remaining provision = $60 + 15 = 75$ men

⇒ Day for which the remaining provision will be used = $1500/75 = 20$ days

88. Answer: d

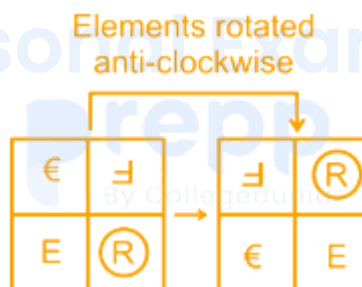
Explanation:

The pattern followed here is as follows,



Every element is shifting in an anticlockwise direction in the succeeding image.

Similarly,



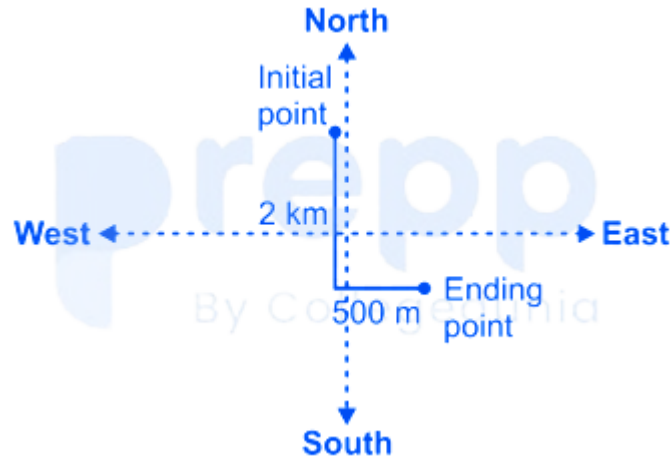
Hence, "option figure C" is the correct answer.

89. Answer: c

Explanation:

We can draw the following diagram as per the given information.

Given : Sukanya walks 2 km towards South and then turns left and walks 500 m.



Clearly, she is in the south-east direction with respect to the initial position.

Hence, "South-East" is the correct answer.

90. **Answer: a**

Explanation:

$$\Rightarrow \cos x + \sin x = \sqrt{2} \cos x$$

Dividing both side by $\cos x$

$$\Rightarrow 1 + \tan x = \sqrt{2}$$

$$\Rightarrow \tan x = \sqrt{2} - 1$$

$$\Rightarrow \cot x = 1/(\sqrt{2} - 1) = (\sqrt{2} + 1)/(2 - 1) = \sqrt{2} + 1$$

91. **Answer: c**

Explanation:

- Chara is not a **Bryophyte**. It is a green algae of the family Characeae.
- **Bryophytes** are small, non-vascular plants, such as mosses, liverworts, and hornworts.
- Bryophytes regulate ecosystems by providing an important buffer system for other plants.
- **Bryophytes** are also called amphibians of the plant kingdom because these plants mostly live in terrestrial habitat but they need water for sexual reproduction.

92. Answer: b

Explanation:

Given:

Speed of train 1 = 40 km/hr

Speed of train 2 = 32 km/hr

The faster train passes a man sitting in the slower train in =15 seconds

Concept used:

Relative speed = $S_1 + S_2$; When both trains are crossing each other in the opposite direction

Calculation:

$$\Rightarrow \text{Relative speed} = 40 + 32 = 72 \text{ km/hr} = 72 \times \left(\frac{5}{18}\right) = 20 \text{ m/sec}$$

$$\Rightarrow \text{Time taken} = 15 \text{ sec}$$

$$15 = \text{length of train 2} / \text{speed}$$

$$\Rightarrow \text{Distance} = \text{Speed} \times \text{time} = 20 \times 15 = 300 \text{ m}$$

$\therefore$ Length of train 2 is 300 m.

93. Answer: b

Explanation:

Weight of each bag is equal and there are 10 bags.

Let weight of each bag be x kg

Statement 1:

$$\Rightarrow \left(\frac{1}{3}\right) \times x = 8$$

$$\Rightarrow x = 24$$

$$\Rightarrow \text{Total weight of 10 bags} = 10 \times 24 = 240 \text{ kg}$$

So, Statement 1 is sufficient, but Statement 2 is irrelevant of the weight

$\therefore$ Statement 1 alone is sufficient.

94. Answer: c

Explanation:

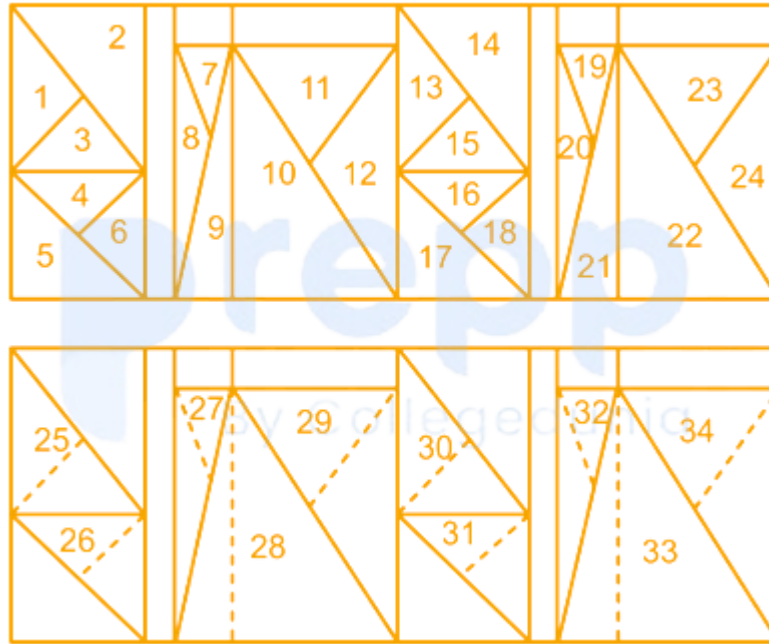
$$\Rightarrow \text{LCM of } \left(\frac{1}{2}\right), \left(\frac{2}{5}\right), \left(\frac{4}{7}\right) \text{ and } \left(\frac{6}{17}\right)$$

$$\Rightarrow \text{LCM}(1, 2, 4, 6) / \text{HCF}(2, 5, 7, 17) = 12/1 = 12$$

95. Answer: b

Explanation:

We can count the triangle in the given figure in the following manner,

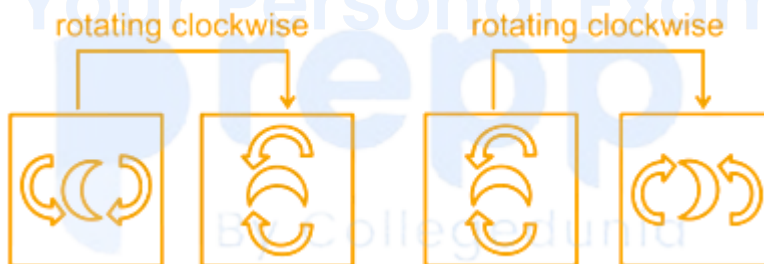


Hence, there are "34" triangles in the given figure.

96. Answer: d

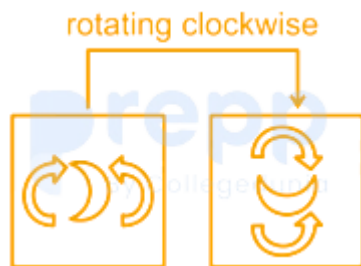
Explanation:

The pattern followed here is as follows,



The figure is rotating in a clockwise direction after shifting.

Similarly,



Hence, "option figure D" is the correct answer.

97. Answer: c

Explanation:

- **Shubhangi Swaroop**, a cadet from Uttar Pradesh, became the first woman pilot in the Indian Navy.
- She is among the 328 cadets who passed out from the Indian Naval Academy's first batch of female officers.
- The first female officer was inducted in the force in 1991.

98. Answer: b

Explanation:

- Cinnabar is an ore of Hg (Mercury) and its Latin name is Hydrargyrum.
- It is the most important ore of mercury having a chemical composition of HgS (mercury sulphide).
- It is used as a pigment in jewelry and ornaments due to its bright red color and it is also not as poisonous as other forms of mercury.
- The atomic number of Mercury is 80.

99. Answer: d

Explanation:

- Amitabh Bachchan won the Indian Film Personality of the Year at the 48th edition of the International Film Festival of India.
- The award is presented to an Indian film veteran for their outstanding Contribution in Indian Film Industry through their film craft.
- This Award consists of a Silver Peacock Medal, a certificate and a Cash Prize of Rs. 10 Lakhs.

100. Answer: d

Explanation:

Gujarat is in the western part of India and covers an area of $196,024 \text{ km}^2$.

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