



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

SSC CHSL 2022 (Tier-I) Previous Year Paper (10-Mar-2023) (Shift 2)

Total Time: 1 Hour

Total Marks: 200

Instructions

Sl No.	Section Name	No. of Question	Maximum Marks
1	General Intelligence and Reasoning	25	50
2	General Awareness	25	50
3	Quantitative Aptitude	25	50
4	English Comprehension	25	50

- 1.) A total of 60 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.

General Intelligence and Reasoning

1. If $64 \# 58 \# 32 = -26$ and $104 \# 17 \# 89 = -2$, then $56 \# 7 \# 24 = ?$ (+2, -0.5)

- a. 21
- b. 25
- c. -2
- d. -13

2. In a certain code language, 'DO' is written as '60' and 'PIE' is written as '720'. How will 'CAT' be written in that code language? (+2, -0.5)

- a. 120
- b. 60
- c. 720
- d. 180

3. Words given on the left side of (::) are related with each other by some Logic/Rule /Relation. Select the missing word/word pair on the right side of (::) from the given alternatives based on the same Logic/Rule/Relation. (+2, -0.5)

Site : Engineer :: ?

- a. Waiter : Restaurant
- b. Grocer : Shop
- c. Scientist : Laboratory

d. House : Servant

4. Select the word pair in which the words are related in the same way as the words are related in the following pair. (+2, -0.5)

Bhutan : Thimphu

- a. Rome : Italy
 - b. China : Hong Kong
 - c. Pakistan : Islamabad
 - d. Bangladesh : Taka
-

5. In the question three statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements. (+2, -0.5)

Statements:

- I. Some walls are broken.
- II. All windows are broken.
- III. Some walls are not painted.

Conclusions:

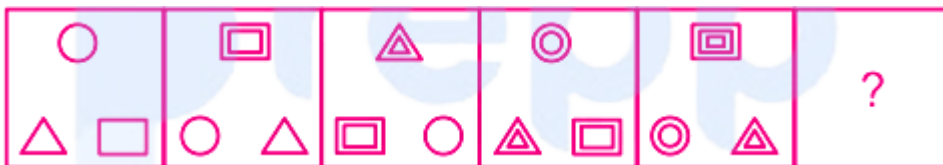
- I. Some broken are windows.
- II. All windows are painted.
- a. Only conclusion II follows.
- b. Only conclusion I follows.

- c. Both conclusion I and II follow.
- d. Neither conclusion I nor II follow.

6. After arranging the given words according to dictionary order, which word will come at 'Fourth' position? (+2, -0.5)

- 1. Activity
- 2. Activist
- 3. Activismal
- 4. Activisticy
- 5. Activate
- a. Activismal
- b. Activist
- c. Activity
- d. Activate

7. Select the figure that will come next in the following figure series. (+2, -0.5)



- a.



b.



c.



d.

8. By interchanging the given two signs which of the following equation will be not correct? (+2, -0.5)

+ and -

I. $18 \div 3 + 8 \times 5 - 4 = 20$

II. $6 + 8 \times 9 \div 3 - 4 = 14$

a. Neither I nor II

b. Only II

c. Only I

d. Both I and II

9. In a certain code language, 'CEMENT' is written as 'ECOCPR' and 'HEIGHT' is written as 'JCKEJR'. How will 'FATHER' be written in that language? (+2, -0.5)

a. HZVFGP

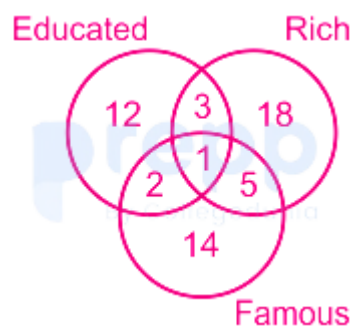
- b. HYVFGO
- c. HYVEGP
- d. HYVFGP

10. Select the option that is related to the fifth number in the same way as the second number is related to the first number and fourth number is related to third number. (+2, -0.5)

58 : 319 : 32 : 176 :: 76 : ?

- a. 442
- b. 286
- c. 428
- d. 418

11. Study the given diagram carefully and answer the questions. The numbers in different sections indicate the number of persons. How many people are educated and rich but not famous? (+2, -0.5)



- a. 2

b. 5

c. 3

d. 1

12. In the following question, four number pairs are given. In each pair the number on left side of $(-)$ is related to the number of the right side of $(-)$ with some Logic/Rule /Relation. Three pairs are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives. (+2, -0.5)

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g.13 - Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

a. 331235-66247

b. 15265-3053

c. 51265-10253

d. 126215-25247

13. Select the option figure in which the given figure is embedded. (rotation is NOT allowed) (+2, -0.5)





a.



b.



c.



d.

14. In the following question, select the related letters from the given alternatives.

(+2, -0.5)

RV : TE :: EL : ?

- a. LU
- b. GO
- c. NC
- d. DP

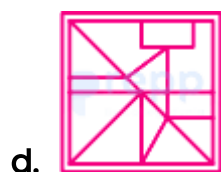
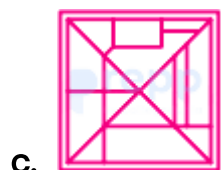
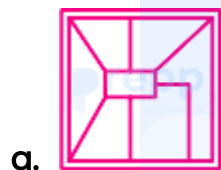
15. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?

(+2, -0.5)

A A_AB_ABC_A_C_E

- a. BCCBD
- b. BCDBD
- c. AABCD
- d. BABCD

16. Select the option figure in which the given figure is embedded. (rotation is NOT allowed) (+2, -0.5)



17. N is the brother of Y and Y is the sister of B. B is the wife of Z and C is the mother of Y. How Z is related to C? (+2, -0.5)

- a. Son-in-law
- b. Daughter
- c. Maternal Uncle
- d. Sister

18. Select the correct mirror image of the given combination when the mirror is placed at line AB as shown. (+2, -0.5)



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

19. Select the option in which the numbers shares the same relationship in set as that shared by the numbers in the given set. (+2, -0.5)

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g.13 - Operations on 13 such as adding/subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

(8, 63, 81)

(11, 120, 144)

a. (9, 80, 100)

b. (6, 36, 49)

c. (5, 24, 49)

d. (7, 48, 96)

-
20. Three of the following four letter clusters are alike in a certain way and one is different. (+2, -0.5)

Pick the cluster that is different from the rest.

a. HS

b. CX

c. MN

d. JP

-
21. In the following question, select the missing number from the given series. (+2, -0.5)

48, 87, 165, 204, 282, 321, ?

a. 399

b. 389

c. 419

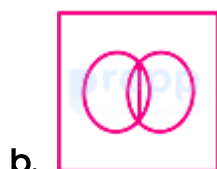
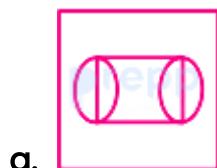
d. 409

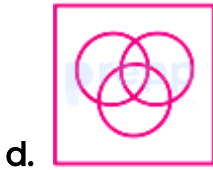
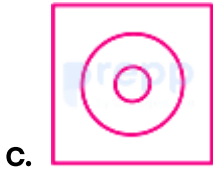
22. In the following question, four number pairs are given. In each pair the number on left side of (-) is related to the number of the right side of (-) with some Logic/Rule/Relation. Three pairs are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives. (+2, -0.5)

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g.13 – Operations on 13 such as adding/subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

- a. 108-11664
- b. 116-13456
- c. 112-12544
- d. 104-10886

23. Select the option figure in which the question figure is embedded. (Rotation is NOT allowed) (+2, -0.5)





24. Find the total number of triangles in the figure.

(+2, -0.5)



- a. 12
- b. 9
- c. 11
- d. 10

25. In the following question, select the odd word pair from the given alternatives.

(+2, -0.5)

- a. Poem - Poet
- b. Ornament - Goldsmith
- c. Clothes - Tailor
- d. Carpenter - Furniture

General Awareness

26. The Planning Commission of India was replaced by NITI Aayog in (+2, -0.5)

-----.

- a. 2016
- b. 2015
- c. 2018
- d. 2017

27. Who was the first female Muslim ruler of India? (+2, -0.5)

- a. Zebunnissa
- b. Razia Sultan
- c. Chand Bibi
- d. Jahanara

28. Who received a Nobel Peace Prize for dismantling apartheid in South Africa? (+2, -0.5)

- a. Nelson Mandela
- b. Rabindranath Tagore
- c. Mahatma Gandhi
- d. Albert John Lutuli

29. As of 2022 , India is the _____ largest economy in the world (as measured by nominal GDP). (+2, -0.5)

- a. Third
- b. Second
- c. Fifth
- d. Fourth

30. Raman wants to use a rear-view mirror in his vehicle. Which type of mirror should he pick for it? (+2, -0.5)

- a. Convex Mirrors
- b. Plane Mirrors
- c. Cylindrical Mirrors
- d. Concave Mirrors

31. When was the Direct Tax Code Bill introduced in the Parliament of India? (+2, -0.5)

- a. 2010
- b. 2005
- c. 2020
- d. 2015

32. Neeti wants to use an input device that works by sensing the user's finger movement and downward pressure. Which among the following should she use? (+2, -0.5)

- a. Scanner
- b. Touchpad
- c. Light pen
- d. Keyboard

33. Which country hosted the FIFA U-17 Women's World Cup 2022? (+2, -0.5)

- a. Egypt
- b. China
- c. France
- d. India

34. Which of the following is NOT application software? (+2, -0.5)

- a. Operating systems
- b. Graphics software
- c. Spreadsheet software
- d. Word-processing software

35. Which among the following is another word for universe? (+2, -0.5)

- a. Big Crunch
- b. Astronomy
- c. Cosmos
- d. Supernova

36. "Pay Roll Automation for Disbursement of Monthly Allowances (PADMA)" (+2, -0.5)
was launched in June 2022 by Ministry of _____.

- a. Civil Aviation
- b. Finance
- c. Defence
- d. Culture

37. Who among the following received the OSCAR for the best actor in leading (+2, -0.5)
role in 2022?

- a. Benedict Cumberbatch
- b. Andrew Garfield
- c. Denzel Washington
- d. Will Smith

38. In which year was the Dowry Prohibition Act passed in India? (+2, -0.5)

- a. 1973

b. 1982

c. 1961

d. 1954

39. PV Sindhu, a famous badminton player of India, won _____ Open title (+2, -0.5)
in July 2022.

a. Thailand

b. India

c. Denmark

d. Singapore

40. Who became the first athlete to win Gold in Yogasana at the 36th (+2, -0.5)
National Games, India in 2022?

a. Pooja Patel

b. Manisha Kumari

c. Soham Swami

d. Raja Gupta

41. In India, palm, coconut, keora, agar are the common trees of which of the (+2, -0.5)
following forests?

a. Mangrove Forests

b. Tropical Evergreen Forests

- c. Tropical Deciduous Forests
 - d. Montane Forests
-

42. In September 2022 , who was appointed as the Attorney General of India? (+2, -0.5)

- a. Mukul Rohtagi
 - b. Ram Jethmalani
 - c. R Venkataramani
 - d. KK Venugopal
-

43. Which among the following lakes is also known as the "Srinagar's Jewel"? (+2, -0.5)

- a. Tsomgo
 - b. Vembanad
 - c. Dal
 - d. Loktak
-

44. Somewhat before the time of Mauryan empire, about _____ years ago, emperors in China began building the Great Wall. (+2, -0.5)

- a. 1200
- b. 3500
- c. 2400
- d. 600

45. Shri Mani Prasad is associated with which form of music? (+2, -0.5)

- a. Fusion Music
 - b. Folk Music
 - c. Carnatic vocal music
 - d. Hindustani vocal music
-

46. Which among the following peaks is the highest peak of Jharkhand? (+2, -0.5)

- a. Kangto
 - b. Girnar
 - c. Anamudi
 - d. Parasnath
-

47. Which pass connects the Kullu Valley with the Lahaul and Spiti Valleys of Himachal Pradesh, India? (+2, -0.5)

- a. Banihal Pass
 - b. Thamarassery Pass
 - c. Rohtang Pass
 - d. Lipulekh Pass
-

48. Who among the following was the architect of the Integrated Guided Missile Development Program (IGMDP) in India? (+2, -0.5)

- a. Har Gobind Khorana
 - b. Vikram Sarabhai
 - c. A. P. J. Abdul Kalam
 - d. Homi J. Bhabha
-

49. Chikungunya is an infection caused by _____ mosquito. (+2, -0.5)

- a. Culex
 - b. Mansonia
 - c. Aedes
 - d. Anopheles
-

50. Aga Khan Palace is located in _____ city of Maharashtra. (+2, -0.5)

- a. Pune
- b. Aurangabad
- c. Ahmednagar
- d. Mumbai

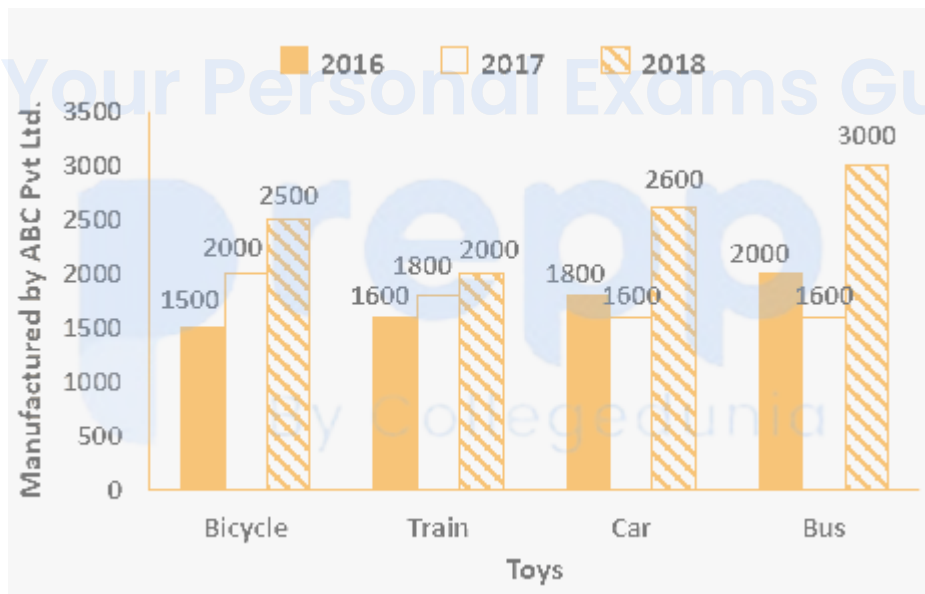
Quantitative Aptitude

51. If A alone can complete a work in 20 days and B alone can complete the same work in 30 days, then which of the following statement(s) is/are correct? (+2, -0.5)

- I. Ratio of efficiency of A and B is 3 : 2.
- II. Working together A and B can complete the same work in 12 days.

- a. Neither I nor II
- b. Both I and II
- c. Only II
- d. Only I

52. The Bar graph shows four different toys (Bicycle, Train, Car & Bus) manufactured by ABC Pvt Ltd. company in 3 consecutive years. (+2, -0.5)



What is the ratio between the sum of cars and trains manufactured in 2017 and 2018 to the total number of buses manufactured in 2016, 2017

and 2018 together?

- a. 30 : 41
- b. 33 : 40
- c. 35 : 41
- d. 40 : 33

53. The length of rectangular sheet of paper is 24 cm more than the breadth and perimeter of the rectangular sheet is 128 cm. Find the length of the rectangular sheet. (+2, -0.5)

- a. 20 cm
- b. 44 cm
- c. 48 cm
- d. 34 cm

54. Rs. 6000 is lent at the annual rate of 10 percent for 2 years. Which of the following is statement(s) is/are correct? (+2, -0.5)

- I. Simple interest to be received on this sum is Rs. 1200
 - II. Compound Interest (compounding annually) to be received on this sum is Rs. 1260
- a. Statement I is correct
 - b. Both statement I and II are correct
 - c. Statement II is correct

d. None of them are correct.

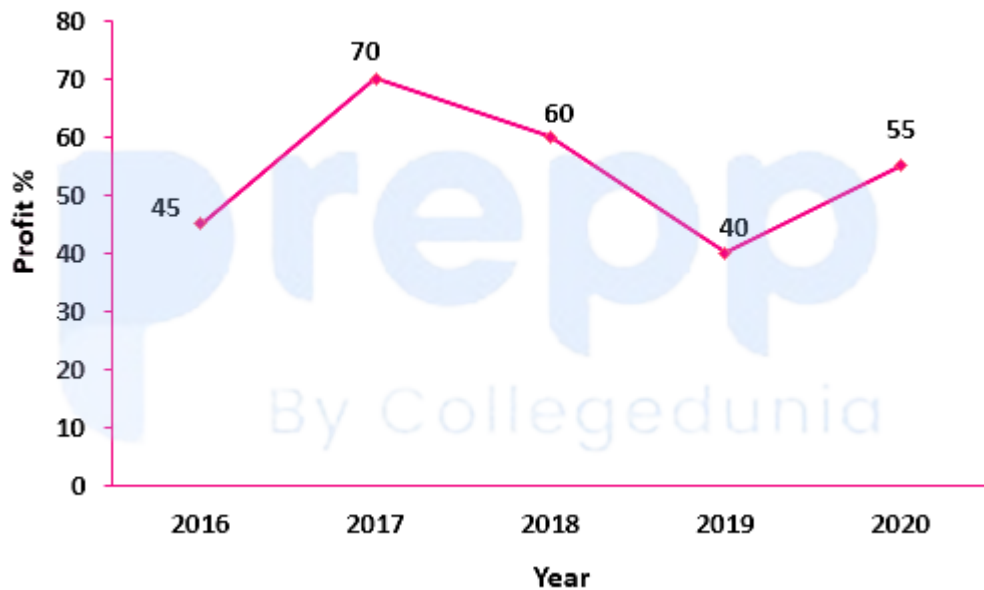
55. If $\tan \theta + \cot \theta = 2$, then what is the value of $\tan \theta - \cot \theta$? (+2, -0.5)

- a. 0
 - b. $\frac{5}{8}$
 - c. 1
 - d. $\frac{3}{4}$
-

56. If $(a - b) = 5$ and $ab = 150$, then what is the value of $a^3 - b^3$? (+2, -0.5)

- a. 2640
 - b. 1125
 - c. 2375
 - d. 2250
-

57. The following line graph shows the annual profit percentage earned by a company during the years 2016 to 2020. (+2, -0.5)



What is the average profit percent earned by the company during the years 2016 to 2020 ?

- a. 55%
- b. 44%
- c. 48%
- d. 54%

Your Personal Exams Guide

58. A wheel makes 500 revolutions in covering a distance of 44 km. Find the radius of the wheel. (+2, -0.5)

- a. 14 m
- b. 21 m
- c. 28 m
- d. 7 m

59. Length of chord MN is 40 cm. Distance of chord MN from the centre is 15 cm. What will be the radius of this circle? (+2, -0.5)

- a. 42 cm
- b. 32 cm
- c. 30 cm
- d. 25 cm

60. What is $\operatorname{cosec} 90^\circ / (1 - \cos^2 60^\circ)$ (+2, -0.5)

- a. 0
- b. $4/3$
- c. $1/4$
- d. $3/4$

61. Find the value of $1200 \div 15 \times [45 \div (17 - 2)]$ of $2 + [-2(1 + 2)]$ (+2, -0.5)

- a. 486
- b. 0
- c. 484
- d. 474

62. The table given below shows the number of male teacher and female teachers in 5 schools. (+2, -0.5)

Schools	Male teachers	Female teachers
L	160	180
M	180	170
N	170	120
P	150	110
Q	130	130

Which of the following statement is correct?

I. The number of male teachers in school L is 135.44 percent of the number of female teachers in school P.

II. The ratio of the number of female teachers in M and N together to the number of male teachers in N and P together is 29 : 32

- a. Only II
- b. Neither I nor II
- c. Both I and II
- d. Only I

63. In the Lok Sabha election, Party A got 30% of the total votes. Party B got 25% of the total votes. Party C got the remaining votes and they got 9000 more votes than Party A. Find the number of votes Party B got. (+2, -0.5)
- a. 12000
 - b. 18000
 - c. 21000

d. 15000

64. If $\sin x = 1/2$, then find the value of $(\sec^4 x + \operatorname{cosec}^4 x) - (\tan^4 x + \cot^4 x)$ (+2, -0.5)

a. $26/3$

b. $97/12$

c. $26/23$

d. 2

65. How many prime numbers are there between 20 and 50? (+2, -0.5)

a. 8

b. 5

c. 6

d. 7

66. If $2p + 5q = 12$ and $pq = 3$, find the value of $4p^2 + 25q^2$ (+2, -0.5)

a. 64

b. 24

c. 84

d. 44

67. In a triangle ABC, AB = 6 cm, BC = 11 cm. How many integral values of AC can be possible? (+2, -0.5)

- a. 10
- b. 8
- c. 12
- d. 11

68. The table given below shows the cost price and value of profit of 6 articles. (+2, -0.5)

Articles	Cost price	Profit
D	700	200
E	600	150
F	400	300
G	500	400
H	300	250
I	800	350

Which of the following statement is NOT correct?

- I. The profit of D, E and F is 30.63 percent of the cost price of G, H and I.
- II. The ratio of total cost price to the total profit is 1 : 2.

- a. Both I and II
- b. Only II

- c. Only I
 - d. Neither I nor II
-

69. A family consists of a father, mother and son. The ratio of their present ages is 8 : 5 : 2 and the present age of the father is 48 years. What will be the average age of family after 3 years? (+2, -0.5)

- a. 30 years
 - b. 31 years
 - c. 33 years
 - d. 35 years
-

70. What is the equivalent single discount of two successive discounts of 12% and 10%? (+2, -0.5)

- a. 18 percent
 - b. 20 percent
 - c. 18.5 percent
 - d. 20.8 percent
-

71. Janki purchased 10 dozen of corn at the rate of Rs. 180 per dozen. She sold each corn at the rate of Rs. 22. What was her percent profit? (+2, -0.5)

- a. 46.6 percent
- b. 18.8 percent

c. 37.7 percent

d. 25.5 percent

72. What is the value of $x^2 + 4y^2 + z^2 - 4xy + 4yz - 2xz$? (+2, -0.5)

a. $(x + 2y - z)^2$

b. $(x - 2y + z)^2$

c. $(2y - x + z)^2$

d. $(2x - y + z)^2$

73. The area (in cm^2) of biggest circle that could be drawn in a square of side 18 cm is: (+2, -0.5)

a. 91π

b. 81π

c. 49π

d. 168π

74. If in the sales department of a company, the average salary per employee is Rs. 350, average salary of 10 senior employees is Rs.450 per employee and average salary of remaining staff is Rs. 250 per employee, then what is the total number of employees working in the sales department? (+2, -0.5)

a. 30

b. 20

c. 15

d. 25

75. Ram needs to reach the examination center in 6 hours, the journey itself is 250 km. If Ram has covered $(3/5)$ th of the distance in 3.5 hours then what is the speed required to reach the destination 30 minutes early than the required time? (+2, -0.5)

a. 50 km/h

b. 90 km/h

c. 40 km/h

d. 60 km/h

prepp

Your Personal Exams Guide

English Comprehension

76. Select the word that is closest in meaning (SYNONYM) to the word given below. (+2, -0.5)

ANXIOUS

- a. COLLECTED
- b. APPREHENSIVE
- c. ACCEPT
- d. FLAWLESS

-
77. Select the most appropriate meaning of the given idiom. (+2, -0.5)

Slack off

- a. To understand a hidden meaning
- b. To ease pressure on something
- c. To make most effort
- d. To be very rude

-
78. Improve the underlined part of the sentence. Choose 'No improvement' as an answer if the sentence is grammatically correct. (+2, -0.5)

This heap of rubbish has not been remove for 6 months.

- a. No improvement
- b. been removing from

c. been removes since

d. been removed for

79. Choose the option that is the correct indirect form of the sentence. (+2, -0.5)

My mother said, "I am meeting your father today."

a. My mother said that she were meeting my father that day.

b. My mother says that she was meeting my father today.

c. The mother said that she has been meeting my father that day.

d. My mother said that she was meeting my father that day.

80. Find the part of the given sentence that has an error in it. If there is no error, choose 'No error'. (+2, -0.5)

When we cook garlic, the sulphide molecules raise into the air and fill the room with their pleasing aroma.

a. When we cook garlic, the sulphide

b. molecules raise into the air

c. No error

d. and fill the room with their pleasing aroma.

81. Rearrange the parts of the sentence in correct order. (+2, -0.5)

If a product placement

P. we are either less likely to notice the placement

Q. our attention is fixated on what will happen next,
R. or more likely to be annoyed by it if we do notice it
S. appears at the climax, the moment when

- a. RSQP
- b. S P Q R
- c. SQPR
- d. PRSQ

82. Fill in the blank with an appropriate option. (+2, -0.5)

He was a handsome man in his _____ thirties.

- a. late
- b. lest
- c. latter
- d. least

83. Select the option that will improve the underlined part of the sentence. In case no improvement is needed, select 'No improvement'. (+2, -0.5)

Africa has glaciers on the Mount Kilimanjaro in Tanzania and on the Mount Kenya.

- a. Mount Kilimanjaro in Tanzania and the Mount Kenya
- b. Mount Kilimanjaro in Tanzania and on Mount Kenya

- c. No improvement
 - d. the Mount Kilimanjaro in Tanzania and to Mount Kenya
-

84. Select the most appropriate one-word substitution for the given group of words. **(+2, -0.5)**

Recovering from an illness or medical treatment.

- a. Bohemian
 - b. Connoisseur
 - c. Convalescent
 - d. Cosmopolitan
-

85. Some parts of a few sentences have been jumbled up, and labelled A, B, C and D. Select the option that gives the correct sequence in which these parts can be rearranged to form a meaningful and grammatically correct sentence. **(+2, -0.5)**

There were two final

- A. the story was the tale of Kunti
- B. a story and a parchment.
- C. gifts the sorceress gave me
- D. mother of Arjun. The parchment was a map of Bharat's many kingdoms

- a. ADCB
- b. CBAD

c. DCBA

d. ABCD

-
86. Parts of the following sentence are given as options. Identify the part that contains a grammatical error. If there is no error, select 'No error'. (+2, -0.5)

This was no strange sight / to the boy by that time, / for he had neither gun or spear.

- a. No error
- b. for he had neither gun or spear.
- c. to the boy by that time,
- d. This was no strange sight

-
87. Choose the word that means the same as the given word. (+2, -0.5)

Gallivant

- a. Meander
- b. Grave
- c. Gall
- d. Brave

-
88. Select the correct passive form of the given sentence. (+2, -0.5)

Meghna has taken all the cash.

- a. All the cash had been taken by Meghna.

- b. All the cash has been taken by Meghna.
 - c. All the cash had been taking by Meghna.
 - d. All the cash was taken by Meghna.
-

89. Select the word that is similar in meaning (SYNONYM) to the word given below (+2, -0.5)

Glib

- a. Inarticulate
 - b. Implausible
 - c. Easy
 - d. Sincere
-

90. In the following question, out of the given four alternatives, select the alternative which best expresses the meaning of the Idiom/Phrase. (+2, -0.5)

Pig in a poke

- a. To bring something to an end
 - b. A brave man amongst all the cowards
 - c. Something that is bought without examining properly
 - d. To obstruct someone's work
-

91. Select the word that is opposite in meaning (ANTONYM) to the word given below. (+2, -0.5)

Fiend

- a. Vile
- b. Junkie
- c. Saint
- d. Atrocious

92. Rearrange the parts of the sentence in correct order.

(+2, -0.5)

The researchers

P. performed experiments and developed a model

Q. which explains how the worm's taste sensors

R. to direct its foraging behaviour

S. process information from the environment

- a. RPQS
- b. PQSR
- c. PSQR
- d. PRQS

93. Select the word segment that substitutes (replaces) the bracketed word segment correctly and completes the sentence meaningfully. In case no improvement is needed, select 'No improvement'.

(+2, -0.5)

(Hardly had the news leak out that) my telephone started ringing.

- a. No sooner did the news leaked out than

- b. No sooner had the news leaked out than
- c. No sooner had the news leaked out that
- d. No improvement

94. Choose the incorrectly spelt word. (+2, -0.5)

- a. VISCOUS
- b. BENEVOLENT
- c. PERCIEVE
- d. BOISTEROUS

95. Choose the correctly spelt word. (+2, -0.5)

- a. VACILLATE
- b. STILLETOS
- c. OBSEQUIOS
- d. MAINTAINANCE

96. In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number. (+2, -0.5)

Through the (1) _____, lonely years of my childhood, when my father's palace (2) _____ to tighten its grip (3) _____ me until I couldn't (4) _____ I would go to my nurse and ask for a story. And though she

knew many wondrous and edifying tales, the one I made her tell me over and over was the (5)_____ of my birth.

Select the most appropriate option to fill in the blank No. 1.

- a. long
- b. timid
- c. menial
- d. beautiful

-
97. In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number. (+2, -0.5)

Through the (1)_____, lonely years of my childhood, when my father's palace (2)_____ to tighten its grip (3)_____ me until I couldn't (4)_____ I would go to my nurse and ask for a story. And though she knew many wondrous and edifying tales, the one I made her tell me over and over was the (5)_____ of my birth.

Select the most appropriate option to fill in the blank No. 2.

- a. seemed
- b. perhaps
- c. besides
- d. thought

-
98. In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number. (+2, -0.5)

Through the (1) _____, lonely years of my childhood, when my father's palace (2) _____ to tighten its grip (3) _____ me until I couldn't (4) _____ I would go to my nurse and ask for a story. And though she knew many wondrous and edifying tales, the one I made her tell me over and over was the (5) _____ of my birth.

Select the most appropriate option to fill in the blank No. 3.

- a. encompassing
- b. revolving
- c. surround
- d. around

-
99. In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number. (+2, -0.5)

Through the (1) _____, lonely years of my childhood, when my father's palace (2) _____ to tighten its grip (3) _____ me until I couldn't (4) _____ I would go to my nurse and ask for a story. And though she knew many wondrous and edifying tales, the one I made her tell me over and over was the (5) _____ of my birth.

Select the most appropriate option to fill in the blank No. 4.

- a. breath
- b. breathed
- c. breathing
- d. breathe

100. In the following passage some words have been deleted. Fill in the blanks (+2, -0.5) with the help of the alternatives given. Select the most appropriate option for each number.

Through the (1) _____, lonely years of my childhood, when my father's palace (2) _____ to tighten its grip (3) _____ me until I couldn't (4) _____ I would go to my nurse and ask for a story. And though she knew many wondrous and edifying tales, the one I made her tell me over and over was the (5) _____ of my birth.

Select the most appropriate option to fill in the blank No. 5.

- a. poem
- b. story
- c. ode
- d. news

Your Personal Exams Guide

Answers

1. Answer: b

Explanation:

The logic followed here is:

For, $64 \# 58 \# 32 = -26$

$\Rightarrow 64 - (58 + 32)$

$\Rightarrow 64 - 90 = -26.$

For, $104 \# 17 \# 89 = -2$

$\Rightarrow 104 - (17 + 89)$

$\Rightarrow 104 - 106 = -2.$

Similarly, for $56 \# 7 \# 24 = ?$

$\Rightarrow 56 - (7 + 24)$

$\Rightarrow 56 - 31 = 25.$

Hence, the correct answer is "25".

2. Answer: b

Explanation:

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 logic followed here is:

Logic: **Product of the Place Value of the given letters.**

Now,

'DO' is written as '60',

→ $D = 4, O = 15,$

⇒ $4 \times 15 = 60.$

'PIE' is written as '720',

→ $P = 16, I = 9, E = 5,$

⇒ $16 \times 9 \times 5 = 720.$

Similarly, for 'CAT'

→ $C = 3, A = 1, T = 20,$

⇒ $3 \times 1 \times 20 = 60.$

So, 'CAT' is written as '60'.

Hence, the correct answer is **"60"**.

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3. Answer: d

Explanation:

The logic followed here is:

Site : Engineer → An engineer is associated with a specific location where they work.

Similarly,

House : Servant → A servant is associated with a specific House where they work.

Hence, the correct answer is **"Option 4"**.

★ Additional Information

Waiter : Restaurant → A Waiter is associated with a specific Restaurant where they work.

Grocer : Shop → A Grocer is associated with a specific Shop where they work.

Scientist : Laboratory → A Scientist is associated with a specific Laboratory where they work.

4. Answer: c

Explanation:

The logic followed here is:

Bhutan : Thimphu → Thimphu is the capital city of Bhutan.

Similarly,

Pakistan : Islamabad → Islamabad is the capital city of Pakistan.

Hence, the correct answer is "Option 3".

★ Additional Information

Rome : Italy → Rome is the capital city of Italy.

China : Hong Kong → Hong Kong is a Special Administrative Region of China.

Bangladesh : Taka → Taka is the currency of Bangladesh.

5. Answer: b

Explanation:

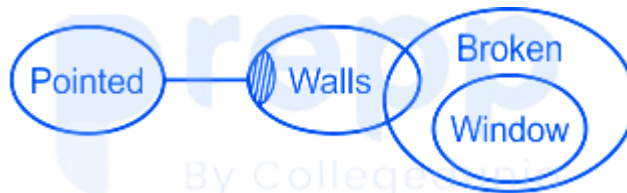
Given Statements:

I. Some walls are broken.

II. All windows are broken.

III. Some walls are not painted.

The least possible Venn diagram for the given statement is:



Conclusions:

I. Some broken are windows – **True** (All window are broken it means some part of broken will be also window).

II. All windows are painted – False (Because, there is no definite relation given between window and painted, so it can be possible only).

So, Only conclusion I follows.

Hence, the correct answer is "Option 2".

6. Answer: c

Explanation:

Let's arrange the words in alphabetical order. All words begin with "Activi", so we'll compare the next letters:

1. Activity (t)
2. Activist (s)
3. Activismal (m)
4. Activisticy (s)

5. Activize (z)

After "Activi", the words beginning with "m", "s", "t", and "z" are our differentiators. Alphabetically, "m" comes before "s", "s" comes before "t", and "t" comes before "z". We also have two words starting with "s" - "Activist" and "Activistic", and in this case, the shorter word comes first.

So, when we arrange these words in alphabetical order, we get:

3. Activismal

2. Activist

4. Activistic

1. Activity

5. Activize

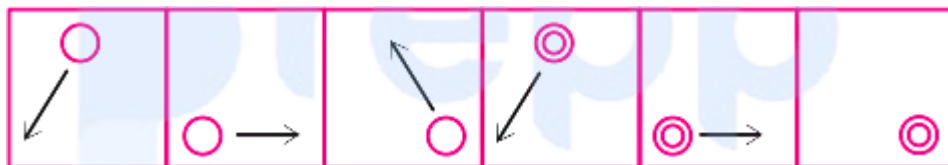
Therefore, the word that will come in the 'Fourth' position is "Activity".

7. Answer: d

Explanation:

The logic followed here is:

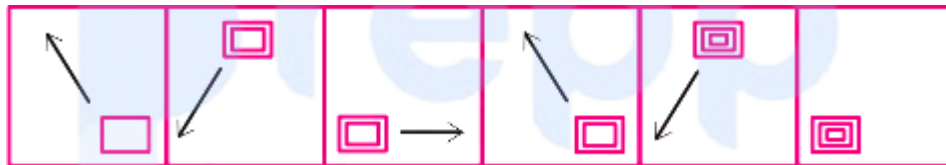
Step I: Circle is getting shifted and getting doubled from the fourth image.



Step II: Triangle is getting shifted and getting doubled from the third image.



Step III: Rectangle is getting shifted and getting doubled from the second image.



So, 'Option 4' will replace the question mark.

Hence, the correct answer is "Option 4".

8. Answer: d

Explanation:

BODMAS Table:

B	Brackets in order (), {}, []	ब्रेकेट (), {}, [] क्रम में
O	of	का
D	Division (÷)	विभाजन (÷)
M	Multiplication (×)	गुणा (×)
A	Addition (+)	जोड़ (+)
S	Subtraction (-)	घटाव (-)

Given equation I. $18 \div 3 + 8 \times 5 - 4 = 20$

Now, if '+' and '-' are interchanged, then:

$$\Rightarrow 18 \div 3 - 8 \times 5 + 4 = 20$$

$$\Rightarrow 6 - 8 \times 5 + 4 = 20$$

$$\Rightarrow 6 - 40 + 4 = 20$$

$$\Rightarrow 10 - 40 = 20$$

$$\Rightarrow -30 \neq 20$$

LHS $\neq$ RHS.

Given equation II: $6 + 8 \times 9 \div 3 - 4 = 14$

Now, if '+' and '-' are interchanged, then:

$$\Rightarrow 6 - 8 \times \underline{9 \div 3} + 4 = 14$$

$$\Rightarrow 6 - \underline{8 \times 3} + 4 = 14$$

$$\Rightarrow \underline{6} - 24 \underline{+ 4} = 14$$

$$\Rightarrow \underline{10 - 24} = 14$$

$$\Rightarrow -14 \neq 14$$

LHS $\neq$ RHS.

Here, Both Equation I and II are the incorrect after interchanging the given symbol.

Hence, the correct answer is "Option 4".

9. Answer: d

Explanation:

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 logic followed here is:

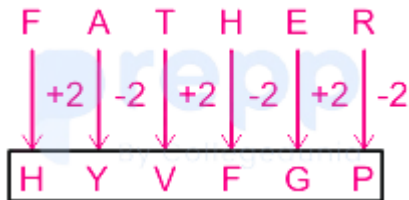
For, 'CEMENT' is written as 'ECOCPR',



For, 'HEIGHT' is written as 'JCKEJR',



Similarly, for 'FATHER'



So, 'FATHER' is coded as 'HYVFGP'.

Hence, the correct answer is "Option 4".

10. Answer: d

Explanation:

The logic followed here is:

Logic: $(1st\ number \times 5) + (1st\ number \div 2) = 2nd\ number$.

Now,

For, 58 : 319

$$\Rightarrow (58 \times 5) + (58 \div 2)$$

$$\Rightarrow 290 + 29 = 319.$$

For, 32 : 176

$$\Rightarrow (32 \times 5) + (32 \div 2)$$

$$\Rightarrow 160 + 16 = 176.$$

Similarly, for $76 : ?$

$$\Rightarrow (76 \times 5) + (76 \div 2)$$

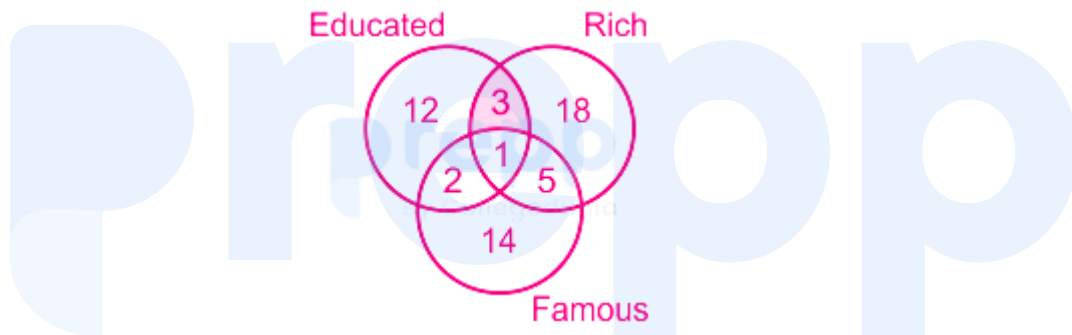
$$\Rightarrow 380 + 38 = 418.$$

Hence, the correct answer is "Option 4".

11. Answer: c

Explanation:

According to the given Venn diagram:



The shaded area shows "the educated and rich but not famous peoples".

So, there are 3 peoples are educated and rich but not famous.

Hence, the correct answer is "3".

12. Answer: d

Explanation:

The logic followed here is:

Logic: 1st number $\div 5 =$ 2nd number.

Now, checking the options:

Option 1) $331235 - 66247 \rightarrow 331235 \div 5 = 66247$.

Option 2) $15265 - 3053 \rightarrow 15265 \div 5 = 3053$.

Option 3) $51265 - 10253 \rightarrow 51265 \div 5 = 10253$.

Option 4) $126215 - 25247 \rightarrow 126215 \div 5 = 25243 \neq 25247$.

So, '126215-25247' odd among the given options.

Hence, the correct answer is **"Option 4"**.

13. Answer: a

Explanation:

The image embedded in given figure is as shown below:

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No.	Option	Question	Answer
1.			Embedded
2.			Not Embedded
3.			Not Embedded
4.			Not Embedded

Hence, "Option 1" is the correct answer.

14. Answer: b

Explanation:

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 logic followed here is:

RV : TE



Similarly, for EL : ?



So, 'EL : GO' would be the related letters.

Hence, the correct answer is "Option 2".

15. Answer: b

Explanation:

The logic followed here is:

Given Sequence: A A _ AB _ ABC _ A _ C _ E

Now, putting the letters in the blank spaces given in the option one by one:

Option 1) BCCBD → A / A B / A B C / A B C C / A B C D E

Option 2) BCDBD → A / A B / A B C / A B C D / A B C D E

Here, 'Option 2' followed a pattern.

Option 3) AABCD → A / A A / A B A / A B C B / A C C D E

Option 4) BABCD → A / A B / A B A / A B C B / A C C D E

Hence, the correct answer is "Option 2".

16. Answer: c

Explanation:

The image embedded in given figure is as shown below:

No.	Option	Question	Answer
1.			Not Embedded
2.			Not Embedded
3.			Embedded
4.			Not Embedded

Hence, "Option 3" is the correct answer.

17. Answer: a

Explanation:

Family Chart:

Symbol in Diagram	Meaning
○	Female
□	Male
==	Married couple
—	Siblings
	Difference of a generation

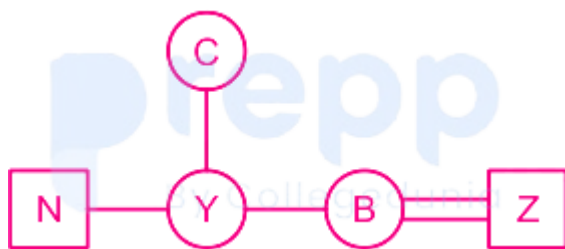
Given:

N is the brother of Y,

Y is the sister of B,

B is the wife of Z.

C is the mother of Y.



So, Z is Son in law of C.

Hence, the correct answer is "Option 1".

18. Answer: d

Explanation:

The mirror image for the given question is:



Hence, the correct answer is "Option 4".

19. Answer: a

Explanation:

The logic followed here is:

Logic: $(1st\ number)^2 - 1 = 2nd\ number,$

$(1st\ number + 1)^2 = 3rd\ number.$

Now,

For, (8, 63, 81)

$$\Rightarrow 8^2 - 1 = 64 - 1 = 63.$$

$$\Rightarrow (8 + 1)^2 = 9^2 = 81.$$

For, (11, 120, 144)

$$\Rightarrow 11^2 - 1 = 121 - 1 = 120.$$

$$\Rightarrow (11 + 1)^2 = 12^2 = 144.$$

Similarly, for (9, 80, 100)

$$\Rightarrow 9^2 - 1 = 81 - 1 = 80.$$

$$\Rightarrow (9 + 1)^2 = 10^2 = 100.$$

Hence, the correct answer is "Option 1".

20. Answer: d

Explanation:

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 logic followed here is:

Option 1) HS → H and S is the opposite letters.

Option 2) CX → C and X is the opposite letters.

Option 3) MN → M and N is the opposite letters.

Option 4) JP → J and P is not the opposite letters, $J + 6 = P$.

Hence, the correct answer is "Option 4".

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21. Answer: a

Explanation:

The logic followed here is:



So, '399' will complete the series.

Hence, the correct answer is "Option 1".

22. Answer: d

Explanation:

The logic followed here is:

Logic: $(1\text{st number})^2 = 2\text{nd number}$.

Now, checking the options:

Option 1) $108-11664 \rightarrow (108)^2 = 11664$.

Option 2) $116-13456 \rightarrow (116)^2 = 13456$.

Option 3) $112-12544 \rightarrow (112)^2 = 12544$.

Option 4) $104-10886 \rightarrow (104)^2 = 10816 \neq 10886$.

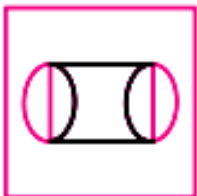
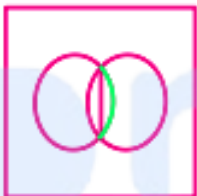
So, '104-10886' is odd among the given options.

Hence, the correct answer is "Option 4".

23. Answer: a

Explanation:

The image embedded in the given figure is as shown below:

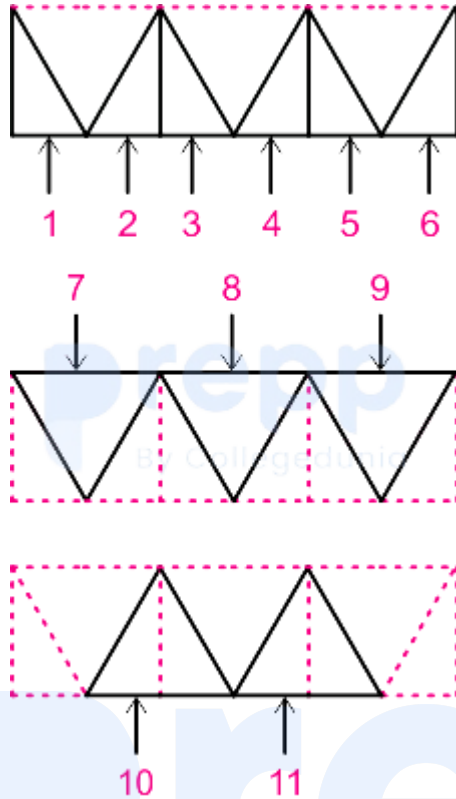
No.	Option	Question	Answer
1.			Embedded
2.			Not Embedded
3.			Not Embedded
4.			Not Embedded

Hence, "Option 1" is the correct answer.

24. Answer: c

Explanation:

The triangles are:



So, there are 11 triangles are in the given figure.

Hence, the correct answer is "11".

25. Answer: d

Explanation:

The logic followed here is:

Logic: **Product : Creator**

Product	Creator
Poem	Poet
Ornament	Goldsmith
Clothes	Tailor
Furniture	Carpenter

Option 1) Poem – Poet → A **poet** is the person who creates a **poem**. This is a creation-creator relationship.

Option 2) Ornament – Goldsmith → A goldsmith is the person who crafts **ornaments**. This is also a creation-creator relationship.

Option 3) Clothes – Tailor → A **tailor** is the person who makes **clothes**. Again, this is a creation-creator relationship.

Option 4) **Carpenter – Furniture** → A **carpenter** is the person who makes **furniture**, this is a creator-creation relationship.

Here, 'Carpenter – Furniture' is odd among the options.

Hence, the correct answer is "Option 4".

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26. Answer: b

Explanation:

The correct answer is 2015.

★ Key Points

- The Planning Commission was charged with the responsibility of making assessments of all resources of the country, augmenting deficient resources, formulating plans for the most effective and balanced utilization of resources, and determining priorities.

- On 1 January 2015, a Cabinet resolution was passed to replace the Planning Commission with the newly formed NITI Aayog.

★ Additional Information

- NITI-National Institution for Transforming India
 - NITI Aayog is a policy think tank of the Government of India which replaced the Planning Commission of India. It was established with the aim of achieving sustainable development goals with cooperative federalism by fostering the involvement of State Governments in economic policies.
 - One of the objectives of NITI Aayog is to develop mechanisms to formulate credible plans at the village level and aggregate these progressively at higher levels of government.
 - **Chairman of NITI Aayog- PM Narendra Modi**

27. Answer: b

Explanation:

The correct answer is Razia Sultan.

★ Key Points

- Razia Sultan was the first female Muslim ruler of the Indian subcontinent.
- She ruled in Delhi from 1236 to 1240 as the Sultan herself – it was a title never before bestowed on a woman, a position of power never before attained by a woman.
- Before ascending to the throne of Delhi after **her father's death**, the reign was briefly handed over to her half-brother Rukn ud-din Firuz.
- But after **Firuz's assassination within 6 months** of his ascendancy, the nobles agreed to place Razia on the throne.

★ Additional Information

Slave Dynasty

- Established by **Qutb ud-Din Aibak**.
- Dynasty lasted from **1206 to 1290**.
- It was the **first** of the dynasties to rule as the **Delhi Sultanate**.
- Dynasty ended when **Jalal ud din Firuz Khilji** overthrew the last Mamluk ruler Muiz ud din Qaiqabad in 1290.
- Dynasty was succeeded by the **Khilji (or Khalji) dynasty, the second dynasty of the Delhi Sultanate**.

28. Answer: a

Explanation:

The correct answer is Nelson Mandela.

★ Key Points

- Nelson Mandela
 - His autobiography is Long Walk to Freedom.
 - Nelson Mandela, in full Nelson Rolihlahla Mandela, by name Madiba.
 - He won the Nobel Prize for Peace in 1993.
 - Mandela is also known for being the first black president of South Africa, serving from 1994 to 1999.
 - He created the Nelson Mandela Foundation, focusing its work towards c
 - Mandela used the country's love for rugby as a way to unite blacks and whites in the racially divided country.
 - Nelson Mandela International Day is celebrated on 18 July every year to remember the contributions of Mandela to the culture of peace, human rights, reconciliation and freedom.

★ Additional Information

- The Nobel Prize in Literature is a Swedish literature prize that is awarded annually, since 1901, to an author from any country who has, in the words of the will of Swedish industrialist Alfred Nobel, "in the field of literature, produced the most outstanding work in an idealistic direction".

- Though individual works are sometimes cited as being particularly noteworthy, the award is based on an author's body of work as a whole.

29. Answer: c

Explanation:

The correct answer is Fifth.

★ Key Points

- On the basis of nominal GDP, India is the **world's fifth-largest economy as of 2022**.
- GDP stands for **Gross Domestic Product**.
- GDP is the **total market value** of all **final goods and services produced** during a given time period **within a nation's domestic borders**.
- GDP is the most referred indicator for highlighting a country's economy, whether its size or its performance, and GDP is used as the benchmark growth indicator.
- The major contribution of GDP in India is of **the service sector, followed by the manufacturing sector, and then by the primary sector**.

★ Additional Information

- **GDP:**
 - **GDP's full form is Gross Domestic Product** is evaluated regularly to account for changing production structure, relative prices, and better recording of economic activities.
 - **Gross Domestic Product (GDP)** is the **total monetary value of final goods and services** produced in the economic territories of a country in a given year.
 - **Non-monetary goods and services** (e.g. cooking by housewives) are not included in GDP calculation.
 - Economic transactions virtually include everything economic in the country. For e.g., if a stockbroker sells and purchases the same stock

worth Rs. 1000 five times in a day, it does not increase the GDP of the country by Rs. 5000.

- Economic transactions may also include buying and selling of bonds, FI inflows, and outflows, etc.
- GDP includes the value of all goods and services produced within a country within a year.

30. Answer: a

Explanation:

The correct answer is Convex Mirrors.

★ Key Points

Convex mirror:

- The **spherical mirror whose reflecting surface is in upside is called a convex mirror.**
- It is always from a virtual image of any object.
- It is used as a rear-view mirror in the vehicle
- It is also from a full-size diminished image of the objects placed at far away distances with a wide range of field of; view.
- Due to a wide range of fields of view, we can see the image of the maximum object behind the vehicles.

★ Additional Information

- The optical instrument which reflects the light falling on it and makes images of anybody is **called a mirror.**
- A **mirror that has a spherical reflecting surface is called aspherical mirror.**
- A mirror whose **reflecting surface is flat is called a plane mirror.**
- A **mirror whose reflecting surface is part of a cylindrical surface is called a cylindrical mirror.**

31. Answer: a

Explanation:

The correct answer is 2010.

★ Key Points

- On 12 August 2009, the first draft of the Direct Tax Code Bill was created.
- In 2010, a Revised Discussion Paper was created.
- In 2010, The Direct Tax Code bill was introduced in Parliament, and a Standing Committee of Finance (SCF) was appointed for a detailed discussion.
- In 2012, the committee submitted its report to Parliament.
- In 2014, a revised version of the Direct Tax Code was created after the committee report.
- The bill lapsed due to the change in government after the general elections.
- In 2017, An expert committee was set up to draft a fresh Direct Tax Code.
- In Aug 2019, the task force report was submitted to the Finance Minister.

★ Additional Information

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Tax Type	Description
Income Tax	A tax on the income earned by individuals, HUFs, companies, and other entities.
Goods and Services Tax (GST)	A value-added tax on the supply of goods and services, which replaced several indirect taxes such as excise duty, VAT, and service tax.
Corporate Tax	A tax on the profits earned by companies and other business entities.
Capital Gains Tax	A tax on the profits earned from the sale of capital assets such as property, shares, and mutual funds.
Wealth Tax	A tax on the net wealth of individuals and HUFs, which was abolished in 2015.
Customs Duty	A tax on the import and export of goods across India's borders.
Excise Duty	A tax on the production and manufacture of goods within the country.
Securities Transaction Tax (STT)	A tax on the purchase and sale of securities such as stocks, bonds, and mutual funds.
Professional Tax	A tax on the income earned by professionals such as doctors, lawyers, and chartered accountants.
Property Tax	A tax on the ownership or occupation of property, which is levied by local authorities such as municipalities and panchayats.

32. Answer: b

Explanation:

The correct answer is Touchpad.

★ Key Points

- Neeti should use a touchpad as an input device.
- A touchpad works by sensing the user's finger movement and downward pressure, and it is commonly used on laptops and other portable devices.
- With a touchpad, Neeti can move the cursor on the screen and perform various operations such as clicking, scrolling, and zooming by using different gestures.
- Touchpads are easy to use and provide a convenient way to interact with a computer without the need for an external mouse or keyboard.

★ Additional Information

Input Device	Description
Scanner	A device that captures images or text and converts them into a digital format.
Light Pen	A pointing device that detects light emitted by the screen when the user touches it with a pen-like device.
Keyboard	A device that allows users to input text and commands by pressing keys.

33. Answer: d

Explanation:

The correct answer is India.

★ Key Points

- The 2022 FIFA U-17 Women's World Cup was the 7th edition of the FIFA U-17 Women's World Cup.

- Odisha Chief Minister Naveen Patnaik launched the **FIFA U-17 Women's World Cup India 2022 Host City logo**.
- The FIFA U-17 Women's World Cup India 2022 was held from October 11 to October 30 in Odisha, Goa, and Maharashtra.
- This was the first FIFA women's competition to be held in India and the first FIFA competition to be organized by the state of Odisha.
- The launch of the official Host City logo of Odisha was an important milestone that also reflects the progress of women's football.
- The official host city logo of Odisha is a composite that represents the official emblem of the FIFA U-17 Women's World Cup India 2022 with a specially designed artwork that highlights the rich cultural heritage, vibrant sports ecosystem, and overall splendour of the state.

★ Additional Information

- 2022 FIFA U-17 Women's World Cup
 - Since its inception, the biennial international women's youth football championship has been contested by the under-17 national teams of FIFA's member associations. 2008.
 - The tournament will be hosted by India, which would have hosted the 2020 edition before it was cancelled due to the COVID-19 pandemic.
 - This is the second time that India hosts a FIFA tournament after the men's **2017 FIFA U-17 World Cup**.
 - This is the first time India hosts a FIFA women's football tournament.
 - Morocco and Tanzania also made their debuts along with hosts India.

34. Answer: a

Explanation:

The correct answer is Operating systems.

★ Key Points

- Operating systems is not an application software.

- It is system **software that manages computer hardware and software resources and provides common services for computer programs.**
- Application software refers to programs that are designed to **perform specific tasks for the user, such as creating documents, editing photos, or managing data.**

★ Additional Information

Operating System	Developer	Year Released
Windows	Microsoft	1985
macOS	Apple	2001
Linux	Various	1991
Android	Google	2008
iOS	Apple	2007
Chrome OS	Google	2011

35. Answer: c

Explanation:

The correct answer is Cosmos.

★ Key Points

- The word "**Universe**" refers to the entirety of all matter and **energy, including all celestial bodies and forms of energy in space.**
- Astronomy and cosmology are fields of study focused on understanding the nature, properties, and origins of the universe.
- The term "cosmos" is often used as a synonym for the universe and is derived from the **Greek word "kosmos," which means "order" or "harmony."**
- The ancient Greeks believed the universe was a perfectly ordered and harmonious system.

- Today, "cosmos" is often used in a more poetic or philosophical context than "universe" to refer to the larger philosophical questions inspired by our observations of the universe.
- The term "cosmos" emphasizes the idea of order and harmony in the universe and is often used to describe the beauty and mystery of the universe.

★ Additional Information

- **Big Crunch:**
 - A theoretical scenario in which the expansion of the universe eventually reverses and all matter collapses back into a hot, dense singularity.
- **Astronomy:**
 - The scientific study of celestial objects and phenomena in the **universe**, including stars, planets, galaxies, and black holes, as well as the properties, physics, and evolution of these objects.
- **Supernova:**
 - A powerful and luminous explosion that occurs when a massive star reaches the end of its life and expels most of its mass in a massive burst of energy and radiation.

36. Answer: c

Explanation:

The correct answer is Defence.

★ Key Points

- Pay Roll Automation for Disbursement of Monthly Allowances (PADMA), an automated Pay & Allowances module for the Indian Coast Guard was inaugurated by Shri Rajnish Kumar, Controller General of Defence Accounts (CGDA), Ministry of Defence.
- PADMA is an automated platform leveraging latest technology which will provide seamless and timely disbursal of Pay & Allowances to around 15,000 Indian Coast Guard personnel.

- This module has been developed under the aegis of Defense Accounts Department and will be operated by Pay Accounts Office Coast Guard, Noida.
- The launch marked the beginning of the Centralized Pay System (CPS), the foundation of which is being laid down by the Defence Accounts Department Headquarters to provide one stop pay accounting solutions for all organizations under the Ministry.
- The CGDA emphasized that the Government has campaigned for Digital India to ensure dedicated services and reduce manual intervention at every level & to promote E-Governance in a big way.
- Launch of PADMA will strengthen the Digital India concept.
- Also, it is an 'Atmanirbhar Bharat' initiative as the entire module has been designed and developed by Indian entrepreneurs assisted by domain experts.

★ Additional Information

- About Ministry of Defence:
 - The Ministry of Defence (MoD) is a central government ministry of the Government of India responsible for managing the country's armed forces.
 - Its primary objective is to ensure India's territorial integrity, security, and sovereignty.
 - The ministry is responsible for formulating defence policies and plans, procuring and maintaining equipment and ammunition for the armed forces, and coordinating with other departments to ensure national security.
 - The Defence Minister is the head of the Ministry of Defence and is responsible for overall policy direction and decision-making.
 - The ministry is also responsible for managing the Defence Research and Development Organization (DRDO), Ordnance Factories Board (OFB), and other defence-related institutions.
 - Rajnath Singh is the current (2023) Defence Minister of India.

37. Answer: d

Explanation:

The correct answer is Will Smith.

★ Key Points

- The winners of the 94th Academy Awards or Oscar awards were announced on **28 March 2022**.
- Will Smith was declared the best actor for 'King Richard'.
- While Jessica Chastain won the best actress Oscar for "The Eyes of Tammy Faye."
- Jane Campion became just the third woman in the 94-year history of the Oscars to win the best director, for her "Power of the Dog."

★ Important Points

- **Oscar Award:**
 - It was instituted in **1929** and is conferred annually by the **Academy of Motion Pictures in the United States**.
 - **Mahboob Khan's Mother India** was the first Indian film to be nominated in the **best foreign film category in 1958**.
 - The **first Indian to share the Oscar** was **Bhanu Athaiya** for the film '*Gandhi*'.
 - **Satyajeeet Ray** was the first Indian who was awarded **Oscar for lifetime achievement in cinema in 1992**.
 - The 2022 Oscar awards were the 94th edition.
 - It was held at **Dolby Theatre** at **Ovation Hollywood**.

Category	Winners
Best Actress in Leading Role	Jessica Chastain- The Eyes of Tammy Faye
Best Actor in Leading Role	Will Smith- King Richard
Best Director	Jane Campion- The Power of the Dog
Best Picture	CODA

38. Answer: c

Explanation:

The correct answer is 1961.

★ Key Points

- **The Dowry Prohibition Act was passed in India in 1961.**
- The Act prohibits the giving or taking of dowry in India and provides penalties for offenders.
- **The Act** was enacted to curb the practice of dowry, which is a social evil in India that has resulted in the exploitation and harassment of women.
- **The Act** is enforced by the Indian police and legal system.
- **The Act** has been amended over the years to strengthen its provisions and increase the penalties for offenders.

★ Additional Information

Prepp

Your Personal Exams Guide

Act	Year of enactment	Purpose
Indian Independence Act	1947	Transferred legislative sovereignty to the Indian Constituent Assembly
Constitution of India	1950	Established the framework for governance and fundamental rights and duties
Dowry Prohibition Act	1961	Prohibits the giving or taking of dowry in India
Right to Information Act	2005	Provides the right to access information held by public authorities
National Rural Employment Guarantee Act	2005	Provides a legal guarantee for 100 days of employment to rural households
Right to Education Act	2009	Provides free and compulsory education to all children aged 6 to 14 years
Goods and Services Tax Act	2017	Replaced multiple indirect taxes with a single tax on the supply of goods and services
Citizenship Amendment Act	2019	Amended the Citizenship Act, 1955 to provide a path to citizenship for religious minorities from Pakistan, Afghanistan, and Bangladesh

39. Answer: d

Explanation:

The correct answer Singapore.

★ Key Points

- **Indian shuttler PV Sindhu** clinched her maiden Women's Single title of the Singapore Open Badminton tournament on 17 July 2022.
- She defeated in the final of the Singapore Open.
- Sindhu has won three titles in 2022 – **the Swiss Open, Syed Modi India International, and now the Singapore Open.**

★ Additional Information

- **The Singapore Open tournament:**
 - **The Singapore Open** is an annual badminton tournament held in Singapore.
 - It is part of the **BWF World Tour** and is a **Super 500 level event**, which makes it one of the most prestigious badminton tournaments in the world.
 - The tournament **features events for men's and women's singles, doubles, and mixed doubles**, and attracts top players from around the world.
 - **The Singapore Open** has been held since 1987 and is organized by the **Badminton Association of Singapore.**
 - The tournament offers significant prize money and world ranking points, making it an important event for professional badminton players.
 - The **Singapore Open** is typically held in April each year and has been won by many of the greatest badminton players in history.

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40. **Answer: a**

Explanation:

The correct answer is **Pooja Patel.**

★ Key Points

- At the 36th National Games, **Pooja Patel of Gujarat** has become the **first athlete to win gold in Yogasana.**
- Pooja won the gold medal in the traditional Yogasana category.
- Yogasana is **one of the five sports to be played at the National Games in 2022** for the first time.

- This Indian indigenous sport made its debut at the **Khelo India University Games in early 2022.**

★ Additional Information

- The 36th edition of the National Games is being held at six cities in Gujarat.
- PM Modi had inaugurated the 36th National Games in the Narendra Modi stadium in Ahmedabad, Gujarat on 29 Sept 2022.
- The mascot of the games is named as 'Savaj' which means cub in Gujarati.
- While the theme of the anthem of the national games is 'Ek Bharat Shreshtha Bharat.'

41. Answer: a

Explanation:

The correct answer is **Mangrove Forests**

Mangrove Forests

★ Key Points

- Found in the areas of coasts influenced by tides. Mud and silt get accumulated on such coasts.
- Dense mangroves are the common varieties with roots of the plants submerged underwater.
- The deltas of the Ganga, the Mahanadi, the Krishana, the Godavari, and the Kaveri are covered by such vegetation.
- In the Ganga Brahmaputra delta, Sundari trees are found, which provide durable hard timber.
- Palm, coconut, keora, agar, also grow in some parts of the delta.
- Royal Bengal Tiger is the famous animal in these forests. Turtles, crocodiles, gharials, and snakes are also found in these forests.

★ Additional Information

Tropical Evergreen Forests:

- These forests are restricted to heavy rainfall areas of the *Western Ghats and the island groups of Lakshadweep, Andaman, and Nicobar, upper parts of Assam, and Tamil Nadu coast.*
- They are at their best in areas having more than **200 cm of rainfall** with a short dry season.
- The trees reach great **heights up to 60 meters** or even above.
- Since the region is warm and wet throughout the year, it has luxuriant vegetation of all kinds.
- The trees, shrubs, and creepers give it a **multilayered structure**.
- There is no definite time for trees to shed their leaves.
- As such, these forests appear green all the year-round

Tropical Deciduous Forests

- These are the most widespread forests of India.
- They are also called the monsoon forests and spread over the region receiving rainfall between 200 cm and 70 cm.
- Trees of this forest type shed their leaves for about six to eight weeks in dry summer.
- On the basis of the availability of water, these forests are further divided into moist and dry deciduous.

Natural vegetation refers to a plant community, which has grown naturally without human aid and has been left undisturbed by humans for a long time. The following major types of vegetation may be identified in our country

1. Tropical Evergreen Forests
2. Tropical Deciduous Forests
3. Tropical Thorn Forests and Scrubs
4. Montane Forests
5. Mangrove Forests

42. Answer: c

Explanation:

Correct Answer **R Venkataramani**

★ Key Points

- R Venkataramani is the incumbent Attorney-General for India. He succeeded to the office as the 16th Attorney-General on 1 October 2022. His predecessor was K. K. Venugopal.
- **Mukul Rohatgi**
 - Mukul Rohatgi is an Indian lawyer and designated senior advocate.
 - He was the 14th Attorney General of India.
 - He had a three-year term as Attorney General from 19 June 2014 to 18 June 2017.
 - He is a senior advocate in the Supreme Court of India.
 - He has also previously served as the Additional Solicitor General of India.
- **KK Venugopal**
 - KK Venugopal is an Indian constitutional lawyer and a senior advocate in the Supreme Court of India.
 - On 1 July 2017, he was appointed as the Attorney General of India.

★ Additional Information

- **Attorney General Constitutional Provisions**
 - According to Article 76 of the Indian Constitution, the Attorney General (AG) of India is the highest law officer of India.
 - As the Chief Legal Adviser to the Government of India, the Attorney General acts to advise the Central Government on all legal matters.
 - Apart from this, the Attorney General of India also represents the Central Government in the Supreme Court.

43. Answer: c

Explanation:

The correct answer is **Dal**

Dal is a lake in Srinagar.

★ Key Points:

- It is an urban lake, which is the second largest in the union territory of Jammu and Kashmir.
- It is integral to tourism and recreation in Kashmir and is named the "**Lake of Flowers**", "**Jewel in the crown of Kashmir**" or "**Srinagar's Jewel**".



★ Additional Information

- Pangong Tso Lake, also popularly known as Pangong Lake is situated 160kms from Leh.
 - It is based at an altitude of around 4350m above sea level in the eastern part of Leh on the Changtang plateau.
- Wular Lake is one of the largest freshwater lakes in Asia.
 - It is sited in the Bandipora district in Jammu and Kashmir, India.
 - The lake basin was formed as a result of tectonic activity and is fed by the Jhelum River.

Vembanad:

- Vembanad (Vembanad Kayal or Vembanad Kol) is the longest lake in India and the largest lake in the state of Kerala.
- With an area of 2033 square kilometres, it is the second-largest Ramsar site in India only after the Sunderbans in West Bengal.
- Spanning several districts in Kerala, it is known as Vembanadu Lake in Kottayam, Punnamada Lake in Alappuzha and Kochi Lake in Kochi.

44. Answer: c

Explanation:

Correct Answer 2400

★ Key Points:

- Somewhat before the time of the **Mauryan empire**, about **2400** years ago, emperors in China began building the **Great Wall**.
- It was meant to protect the **northern frontier** of the empire from **pastoral people**.
- Additions to the wall were made over a **period of 2000 years** because the **frontiers of the empire kept shifting**.
- The wall is about **21,196km long** and is made of **stone and brick**, with a road along the top.
- Several thousand people worked to build the wall.
- There are **watch towers all along**, at distances of about **100–200 m**.

★ Additional Information

Mauryan Empire

- The Maurya dynasty (321–185 BC) was a **powerful dynasty** in ancient India.
- The Maurya dynasty ruled India for **137 years**.
- The credit for its establishment is given to **Chandragupta Maurya** and his minister **Chanakya** (Kautilya).

- This empire started from the plains of the Ganges river (today's Bihar and Bengal) in the state of Magadha in the east.
- Its capital was **Pataliputra** (near present-day Patna city).
- Chandragupta Maurya established this empire in **321 BC** and rapidly expanded his empire towards the west.
- **The Mauryan Empire grew and thrived during the Iron Age.**
- He took advantage of the differences between several small regional kingdoms that had arisen after **Alexander's invasion**.
- By 316 BC, the Maurya dynasty had occupied the whole of North Western India.
- The Maurya dynasty expanded on a large scale in the reign of the Chakravarti emperor Ashoka.
- Due to Emperor Ashoka, the Maurya Empire became the greatest and most powerful and became famous all over the world.

45. Answer: d

Explanation:

Correct Answer **Hindustani vocal music**

★ Key Points

- **Shri Mani Prasad** was a renowned **Hindustani classical vocalist**.
- He was a disciple of the legendary musician **Ustad Bade Ghulam Ali Khan**.
- He is known for his expertise in the **Patiala Gharana** style of **Hindustani classical music**.
- Mani Prasad was a distinguished performer and teacher of music and has left a lasting impact on the **Hindustani classical music tradition**

46. Answer: d

Explanation:

The correct answer is Parasnath

- **Parasnath Hill** is the **highest peak** in **Jharkhand state**.

★ Key Points:

- It is named after **Lord Parshvanatha**, the **23rd Tirthankara** of the **Jain religion**.
- It is located in the **Giridih district** of **Jharkhand**.
- The height of **Parasnath Hill** is about **1365 m**.
- For Jain people, it is the **most important pilgrimage center**.
- **Jain calls** the hill "**Sammed Sikhar**".
- **Parasnath was the 23rd Tirthankara** and the hill was named after him.
- Some believe **that the 9th Tirthankaras achieved salvation** on this hill.
- There is a **shrine on the hill for each Tirthankara**.

★ Additional Information

Anamudi is the highest peak of the **Anaimalai hills**.

- Anaimalai hills are situated in the north of Anamudi.
- Anamudi is located in **Kerala**.
- Anamudi is also known as the **Everest of South India**.
- The elevation of Anamudi hill is **2,695 meters**.
- The name Anamudi means "**elephant's head**".
- **General Douglas Hamilton** made the first recorded ascent of Anamudi.
- Anamudi is the meeting point of Anaimalai, Palanimalai, and ealaimalai.

Girnar hills:-

- **It** is a group of mountains situated in the **Junagadh district** of **Gujarat**.
- It is a sacred pilgrimage site of both Hindus and Jains and is considered to be older than even the Himalayas.
- The **highest point in Gujarat, Mt. Girnar** has for centuries been one of the most important pilgrimage sites in the state and in all of Western India, with **866 Hindu and Jain temples** spread over the **5 summits**.

47. Answer: c

Explanation:

Correct Answer **Rohtang Pass**

★ Key Points

Rohtang Pass

- It is a high mountain pass on the eastern end of the Pir Panjal Range of the Himalayas around 51 km from Manali.
- It connects the Kullu Valley with the Lahaul and Spiti Valleys of Himachal Pradesh.
- It links Manali and Leh by road.
- The pass lies on the watershed between the Chenab and Beas basins.
- It as polar climate köppen (ET).

★ Additional Information

Other important passes:

Passes	Location
Zoji La (Pass)	Zaskar range of Jammu & Kashmir
Banihal Pass	Jammu & Kashmir
Shipki La (Pass)	Himachal Pradesh
Bara-Lacha Pass	Himachal Pradesh
Mana Pass	Uttarakhand
Niti Pass	Uttarakhand
Jelep La (Pass)	Sikkim

48. Answer: c

Explanation:

Correct Answer **A. P. J. Abdul Kalam.**

★ Key Points

Integrated Guided Missile Development Programme

- IGMDP was the brainchild of renowned scientist Dr APJ Abdul Kalam.
- It was **intended to attain self-sufficiency** in the field of missile technology.
- After keeping in mind the requirements of various types of missiles by the defense forces, the program recognized the need to develop five missile systems.
- The IGMDP formally got the approval of the Indian government on 26th July 1983.
- The missiles developed under IGMDP are:
 - Short-range surface-to-surface ballistic missile – **Prithvi**
 - Intermediate-range surface-to-surface ballistic missile – **Agni**
 - Short-range low-level surface-to-air missile – **Trishul**
 - Medium-range surface-to-air missile – **Akash**
 - **Third-generation anti-tank missile – Nag**

★ Additional Information

Vikram Sarabhai:

- Dr. Vikram Sarabhai was born on August 12, 1919, in Ahmadabad.
- Dr. Vikram Sarabhai was considered the Father of the Indian space program.
- He was a great institution builder and established a large number of institutes in diverse fields.
- He was instrumental in establishing the Physical Research Laboratory (PRL) in Ahmedabad in November 1947.
- He was also Chairman of the Atomic Energy Commission.

- Dr. Sarabhai's dialogue with NASA in 1966, the Satellite Instructional Television Experiment (SITE) was launched during July 1975–July 1976.
- Dr. Sarabhai started a project for the fabrication and launch of an Indian Satellite.
- As a result, the first Indian satellite, Aryabhata, was put in orbit in 1975 from a Russian Cosmodrome.
- He founded a Community Science Centre at Ahmedabad in 1966.
- Today, the Centre is called the Vikram A Sarabhai Community Science Centre.

Homi J. Bhabha:

- **Homi J. Bhabha** was an Indian nuclear physicist, founding director, and professor of physics at the Tata Institute of Fundamental Research. Colloquially known as the **father of the Indian nuclear program**.
- Homi J. Bhabha was the Chairman of the Atomic Energy Commission that was set-up in **August 1948**.
- Dr. Homi Bhabha established the **Atomic Energy Establishment**, Trombay (AEET) in **January 1954**.
- In 1966, Atomic Energy Establishment, Trombay was renamed; **Bhabha** Atomic Research Centre (BARC).
- Dr. Bhabha was one of the founding directors of the Tata Institute of Fundamental Research.
- He was awarded the Admas Prize.

49. Answer: c

Explanation:

Correct Answer **Aedes**

★ Key Points

Explanation:

- Dengue fever is a mosquito-borne viral disease caused by the virus *Flavivirus*, which is spread by several mosquito species in the genus *Aedes*, most

notably *Aedes aegypti*.

- Female *Aedes* mosquitos are dengue virus carriers.
- Dengue mosquitos typically bite during the day and can be found almost anywhere. These mosquitos are most active in the early morning and late evening.
- There is no specific medicine or vaccine to treat dengue fever. People who have dengue fever should rest and drink plenty of fluids.
- *Aedes* mosquitoes breed in indoor and outdoor settings in a variety of **natural and artificial water-holding containers** such as plastic tanks, leaves, water storage jars, cement tanks, flower vases, treatment tanks, glass, and rubber tires, and plastic bottles.
- Symptoms:
 - High fever
 - Severe Headache
 - Loss of appetite.
 - Pain behind the eyes
 - Diarrhea, and vomiting
 - Muscle and joint pains, and
 - Skin rash.
- Prevention:
 - Wear long pants and long-sleeved shirts to cover your skin.
 - Use of mosquito nets.
 - Close all doors and windows, especially morning, and early evening, to keep Dengue mosquitos out.
 - Eradication of vectors and their breeding places.

50. **Answer: a**

Explanation:

The correct answer is **Pune**

★ Key Points:

- The **Aga Khan Palace** was built by **Sultan Muhammed Shah Aga Khan III** in the city of **Pune, Maharashtra** in **1892**.
- The palace was an **act of charity** by the spiritual leader of the **Nizari Ismaili Muslims**, who wanted to help the poor in the neighboring areas of Pune, who were drastically hit by famine.

★ **Additional Information:**

- Sir Sultan Mahomed Shah, Aga Khan III was the **48th Imam of the Nizari Ismaili sect of Islam**.
- He played a very **important role in giving the Muslims a political stance** to express their opinions to the British.
- In **1906**, the **Aga Khan was a founding member and first president of the All India Muslim League**.

51. **Answer: b**

Explanation:

Given:

A can complete the work in 20 days

B can complete the work in 30 days

We need to determine whether the following statements are correct or not:

I. Ratio of efficiency of A and B is 3 : 2.

II. Working together A and B can complete the same work in 12 days.

Formula used:

If A can complete a work in x days, then the work done by A in one day = $1/x$.

If A can do the work in x days, then B can do the same work in y days, then the ratio of work done by A and B in one day = $1/x : 1/y = y/x$.

If A and B work together, their work done in one day = $(1/x + 1/y)$.

If A and B can complete a work together in d days, then their work done in one day = $1/d$.

Solution:

Let the total work be W.

A can complete the work in 20 days, so his daily efficiency is $1/20$ of the work.

B can complete the work in 30 days, so his daily efficiency is $1/30$ of the work.

I. Ratio of efficiency of A and B is $(1/20) : (1/30) = 3 : 2$. Therefore, statement I is correct.

II. Let the number of days it takes A and B to complete the work together be d.

Then, the work done by A in one day = $1/20$, and the work done by B in one day = $1/30$.

Their work done in one day working together = $(1/20) + (1/30) = 1/12$.

Therefore, A and B can complete the work together in 12 days. So, statement II is correct.

Hence, both statement I and statement II are correct.

$\therefore$ Option 2 is the correct answer.

52. Answer: d

Explanation:

Calculation:

The sum of cars and trains manufactured in 2017 and 2018 = $1600 + 2600 + 1800 + 2000 = 8000$

Total number of buses manufactured in 2016, 2017 and 2018 together = $2000 + 1600 + 3000 = 6600$

Ratio = $8000 : 6600$

$\Rightarrow 40 : 33$

$\therefore$ Option 4 is the correct answer.

53. Answer: b

Explanation:

Given:

Length of rectangular sheet = Breadth + 24 cm

Perimeter of rectangular sheet = 128 cm

Formula used:

Perimeter of a rectangle = $2(\text{length} + \text{breadth})$

Solution:

Let the breadth of the rectangular sheet be x cm.

Then, the length of the rectangular sheet = $x + 24$ cm (as given in the question)

Perimeter of the rectangular sheet = $2(\text{length} + \text{breadth})$

$$128 = 2(x + x + 24)$$

$$128 = 4x + 48$$

$$4x = 80$$

$$x = 20$$

Therefore, the breadth of the rectangular sheet is 20 cm.

Length of the rectangular sheet = breadth + 24 = 20 + 24 = 44 cm.

Hence, the length of the rectangular sheet is 44 cm.

∴ Option 2 is the correct answer.

54. Answer: b

Explanation:

Given:

Principal amount (P) = Rs. 6000

Rate of interest (R) = 10% per annum

Time period (t) = 2 years

Formula used:

I. Simple Interest (S.I.) = $(P * R * t) / 100$

II. Compound Interest (C.I.) = $P * [1 + (R/100)]^t - P$

where, P is the principal amount, R is the rate of interest, t is the time period.

For annual compounding, t = number of years.

Solution:

I. Simple Interest = $(P * R * t) / 100$

= $(6000 * 10 * 2) / 100$

= Rs. 1200

Therefore, statement I is correct.

II. Compound Interest = $P * [1 + (R/100)]^t - P$

$$= 6000 * [(1 + (10/100))^2 - 1]$$

$$= 6000 * [(1.1)^2 - 1]$$

$$= 6000 * [1.21 - 1]$$

$$= 6000 * 0.21$$

$$= \text{Rs. } 1260$$

Therefore, statement II is also correct.

Hence, both statement I and statement II are correct.

∴ Option 2 is the correct answer.

55. Answer: a

Explanation:

Given:

$$\tan \theta + \cot \theta = 2$$

Calculation:

$$\Rightarrow (\sin \theta / \cos \theta) + (\cos \theta / \sin \theta) = 2$$

$$\Rightarrow (\sin^2 \theta + \cos^2 \theta) / \sin \theta \cos \theta = 2 \quad (\because \sin^2 \theta + \cos^2 \theta = 1)$$

$$\Rightarrow 2 \sin \theta \cos \theta = 1$$

$$\Rightarrow \sin 2\theta = 1 \quad (\because \sin 2A = 2 \sin A \cos A)$$

$$\Rightarrow 2\theta = 90^\circ \quad (\because \sin 90^\circ = 1)$$

$$\Rightarrow \theta = 45^\circ$$

$$\tan \theta - \cot \theta = \tan 45^\circ - \cot 45^\circ = (1) - (1) = 0$$

$$\therefore \tan \theta - \cot \theta = 0$$

56. Answer: c

Explanation:

Given:

$$a - b = 5 \text{ and } ab = 150$$

Concept used:

$$a^3 - b^3 = (a - b)^3 + 3ab(a - b)$$

Calculation:

$$a^3 - b^3 = (a - b)^3 + 3ab(a - b)$$

Putting these equations in the above identity

$$\Rightarrow a^3 - b^3 = (5)^3 + 3 \times 150(5)$$

$$\Rightarrow a^3 - b^3 = 125 + 2250$$

$$\Rightarrow a^3 - b^3 = 2375$$

$$\therefore a^3 - b^3 = 2375$$

57. Answer: d

Explanation:

Calculation:

$$\begin{aligned} \text{Profit percent earned by the company during the years 2016 to 2020} &= 45 + 70 + 60 \\ &+ 40 + 55 = 270 \end{aligned}$$

Average profit percent earned by the company during the years 2016 to 2020 = $270/5$

$\Rightarrow 54\%$

$\therefore$ Option 4 is the correct answer.

58. Answer: a

Explanation:

Given:

Number of revolutions made by the wheel = 500

Distance covered by the wheel = 44 km

Formula:

The distance covered by a wheel in one revolution is equal to the circumference of the wheel, which is given by $2\pi r$, where r is the radius of the wheel.

The total distance covered by the wheel is equal to the product of the number of revolutions and the distance covered in one revolution.

Solution:

Let r be the radius of the wheel in meters.

The distance covered by the wheel in one revolution is $2\pi r$ meters.

The distance covered by the wheel in 500 revolutions is $(500)(2\pi r)$ meters.

We know that the distance covered by the wheel is 44 km = 44,000 meters. So we can set up an equation:

$$(500)(2\pi r) = 44,000$$

Simplifying this equation:

$$1000\pi r = 44,000$$

$$r = 44,000 / (1000\pi)$$

$$r = 14 \text{ meters}$$

Therefore, the radius of the wheel is 14 meters.

59. Answer: d

Explanation:

Given:

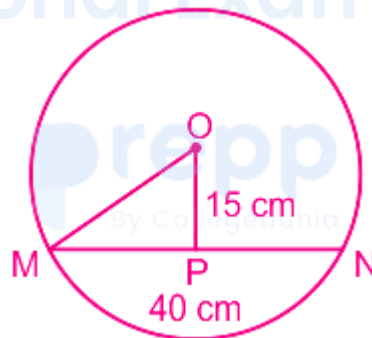
The distance of chord MN from the center is 15 cm

The length of chord MN is 40 cm

Concept:

Chord length using perpendicular distance from the centre = $2 \times \sqrt{(r^2 - d^2)}$ [$\because r =$ radius, $d =$ perpendicular distance]

Calculation:



$$\text{Length of Chord} = 2 \times \sqrt{(r^2 - d^2)}$$

$$40 = 2 \times \sqrt{(r^2 - 15^2)} = 25 \text{ cm}$$

$\therefore$ Option 4 is the correct answer.

60. Answer: b

Explanation:

We know that

$$\operatorname{cosec} 90^{\circ} = 1$$

$$\cos 60^{\circ} = 1/2$$

Calculation:

$$\operatorname{cosec} 90^{\circ} / (1 - \cos^2 60^{\circ})$$

$$\Rightarrow 1 / 1 - (1/2)^2$$

$$\Rightarrow 1 / (3/4)$$

$$\Rightarrow 4/3$$

$\therefore$ Option 2 is the correct answer.

61. Answer: d

Explanation:

Concept used:

Follow the BODMAS rule to solve this question, as per the order given below,

B	Brackets in order (), {}, []	ब्रैकेट (), {}, [] क्रम में
O	of	का
D	Division (÷)	विभाजन (÷)
M	Multiplication (×)	गुणा (×)
A	Addition (+)	जोड़ (+)
S	Subtraction (−)	घटाव (−)

Calculation:

$$1200 \div 15 \times [45 \div (17 - 2)] \text{ of } 2 + [-2(1 + 2)]$$

$$\Rightarrow 80 \times [(3)] \text{ of } 2 + [-6]$$

$$\Rightarrow 80 \times 6 + [-6]$$

$$\Rightarrow 480 - 6$$

$$\Rightarrow 474$$

∴ Option 4 is the correct answer.

62. Answer: a

Explanation:

Calculation:

I. The number of male teachers in school L is 135.44 percent of the number of female teachers in school P.

Number of male teachers in school L = 160

Number of female teachers in school P = 110

$$(160/110) \times 100\% \approx 145.45\%$$

Therefore, the statement I is incorrect. The correct percentage is 145.45% and not 135.44%.

II. The ratio of the number of female teachers in M and N together to the number of male teachers in N and P together is 29 : 32.

Number of female teachers in schools M and N together = $170 + 120 = 290$

Number of male teachers in schools N and P together = $170 + 150 = 320$

The ratio of the number of female teachers in M and N together to the number of male teachers in N and P together = $290 : 320$

We can simplify this ratio by dividing both numbers by 10.

$29 : 32$

Therefore, statement II is correct.

63. Answer: d

Explanation:

Given:

Party A got 30% of the total votes

Party B got 25% of the total votes

Party C got the remaining votes and got 9000 more votes than Party A

Formula:

The percentage of votes received by a party can be converted to the actual number of votes by multiplying the percentage by the total number of votes.

Solution:

Let's assume that the total number of votes in the Lok Sabha election is 'x'.

Then,

The number of votes received by Party A is $0.3x$.

The number of votes received by Party B is $0.25x$.

The number of votes received by Party C is $x - 0.3x - 0.25x = 0.45x$.

The number of votes received by Party C is 9000 more than the number of votes received by Party A, so:

$$0.45x = 0.3x + 9000$$

Simplifying this equation:

$$0.15x = 9000$$

$$x = 60000$$

Therefore, the total number of votes in the Lok Sabha election is 60000.

The number of votes received by Party B is:

$$0.25x = 0.25(60000) = 15000$$

Therefore, Party B got 15000 votes.

64. Answer: a

Explanation:

Given:

$$\sin x = \frac{1}{2}$$

Formula used:

$$(1.) \sec^2\theta - \tan^2\theta = 1$$

$$(2.) \operatorname{cosec}^2\theta - \cot^2\theta = 1$$

$$(3.) \sin(30^\circ) = \frac{1}{2}$$

Calculation:

According to the question,

$$\text{Since } \sin(30^\circ) = \frac{1}{2},$$

$$\text{Therefore, } x = 30^\circ$$

Again according to the question,

$$\Rightarrow ? = (\sec^4 x + \operatorname{cosec}^4 x) - (\tan^4 x + \cot^4 x)$$

$$\Rightarrow ? = \sec^4 x + \operatorname{cosec}^4 x - \tan^4 x - \cot^4 x$$

$$\Rightarrow ? = \sec^4 x - \tan^4 x + \operatorname{cosec}^4 x - \cot^4 x$$

$$\Rightarrow ? = (\sec^2 x - \tan^2 x)(\sec^2 x + \tan^2 x) + (\operatorname{cosec}^2 x - \cot^2 x)(\operatorname{cosec}^2 x + \cot^2 x)$$

$$\Rightarrow ? = (1)(\sec^2 x + \tan^2 x) + (1)(\operatorname{cosec}^2 x + \cot^2 x)$$

$$\Rightarrow ? = (\sec^2 x + \tan^2 x) + (\operatorname{cosec}^2 x + \cot^2 x)$$

$$\Rightarrow ? = (\sec^2 30^\circ + \tan^2 30^\circ) + (\operatorname{cosec}^2 30^\circ + \cot^2 30^\circ)$$

$$\Rightarrow ? = \left(\frac{2}{\sqrt{3}}\right)^2 + \left(\frac{1}{\sqrt{3}}\right)^2 + (2)^2 + (\sqrt{3})^2$$

$$\Rightarrow ? = \frac{4}{3} + \frac{1}{3} + 4 + 3$$

$$\Rightarrow ? = \frac{4+1+12+9}{3} = \frac{26}{3}$$

Therefore, ' $\frac{26}{3}$ ' is the required answer.

★ Additional Information

(1.) If $\sec\theta + \tan\theta = a$, then $\sec\theta - \tan\theta = \frac{1}{a}$

(2.) If $\operatorname{cosec}\theta + \cot\theta = a$, then $\operatorname{cosec}\theta - \cot\theta = \frac{1}{a}$

65. Answer: d

Explanation:

Calculation:

The prime numbers between 20 and 50 are:

23, 29, 31, 37, 41, 43, 47

Therefore, there are 7 prime numbers between 20 and 50.

66. Answer: c

Explanation:

Calculation:

We have:

$$2p + 5q = 12 \dots\dots(1)$$

$$pq = 3 \dots\dots(2)$$

Squaring equation (1), we get:

$$4p^2 + 20pq + 25q^2 = 144$$

Substituting the value of pq from equation (2), we get:

$$4p^2 + 20(3) + 25q^2 = 144$$

Simplifying this equation:

$$4p^2 + 25q^2 = 84$$

Therefore, the value of $4p^2 + 25q^2$ is 84.

67. Answer: d

Explanation:

Calculation:

According to the triangle inequality theorem, we have:

$$AB + BC > AC$$

$$6 + 11 > AC$$

$$17 > AC$$

$$AC + AB > BC$$

$$AC + 6 > 11$$

$$AC > 5$$

$$AC + BC > AB$$

$$AC + 11 > 6$$

$AC > -5$ (We can ignore this inequality as the length of a side of a triangle cannot be negative.)

Combining the first two inequalities, we get:

$$17 > AC > 5$$

Therefore, AC can take integral values from 6 to 16 (both inclusive). Hence, the number of integral values of AC that are possible is 11 (i.e., 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16).

68. Answer: a

Explanation:

Calculation:

Total cost price of articles D, E, and F = $700 + 600 + 400 = 1700$

Total cost price of articles G, H, and I = $500 + 300 + 800 = 1600$

Total profit of articles D, E, and F = $200 + 150 + 300 = 650$

Total profit of articles G, H, and I = $400 + 250 + 350 = 1000$

Statement I: The profit of D, E and F is 30.63 percent of the cost price of G, H and I.

Profit of D, E and F = $200 + 150 + 300 = 650$

Cost price of G, H, and I = $500 + 300 + 800 = 1600$

The percentage is $(650/1600) \times 100 = 40.625\%$

So, this statement is incorrect.

Statement II: The ratio of total cost price to the total profit is 1 : 2.

Total cost price = $1700 + 1600 = 3300$

Total profit = $650 + 1000 = 1650$

The ratio of total cost price to the total profit is $3300 : 1650 = 2 : 1$

So, this statement is also incorrect.

Therefore, both statements are incorrect.

69. Answer: c

Explanation:

Given:

The ratio of present ages of father, mother, and son = 8:5:2

Present age of father = 48 years

Formula used:

Average age = Total age / Number of members

Calculation:

We can find the present ages of the mother and son by using the ratio:

Mother's age = $(5/8) \times \text{Father's age} = (5/8) \times 48 = 30$ years

Son's age = $(2/8) \times \text{Father's age} = (1/4) \times 48 = 12$ years

After 3 years, their ages will be:

Father's age = $48 + 3 = 51$ years

Mother's age = $30 + 3 = 33$ years

Son's age = $12 + 3 = 15$ years

The total age of the family after 3 years will be:

Total age = $51 + 33 + 15 = 99$

The average age of the family after 3 years will be:

Average age = Total age / Number of members

Average age = $99/3 = 33$

Therefore, the average age of the family after 3 years will be 33 years.

70. **Answer: d**

Explanation:

Given:

Two successive discounts of 12% and 10%.

Formula Used:

Equivalent discount = $100\% - [(100\% - \text{discount1}) \times (100\% - \text{discount2})]/100\%$

where discount1 and discount2 are the two successive discounts given.

Solution:

Substituting discount1 = 12% and discount2 = 10% in the formula, we get:

Equivalent discount = $100\% - [(100\% - 12\%) \times (100\% - 10\%)]/100\%$

= $100\% - [(88\%) \times (90\%)]/100\%$

= $100\% - 79.2\%$

= 20.8%

Therefore, the equivalent single discount of two successive discounts of 12% and 10% is 20.8%.

71. Answer: a**Explanation:****Given:**

Janki purchased 10 dozen corn at the rate of Rs. 180 per dozen.

She sold each corn at the rate of Rs. 22.

Formula:

Cost Price (CP) = Cost of 1 dozen of corn = Rs. 180

Selling Price (SP) = Rs. 22

$$\text{Profit} = \text{SP} - \text{CP}$$

$$\text{Profit Percentage} = (\text{Profit} / \text{CP}) \times 100$$

Calculation:

To solve this problem, we need to find the total cost of 10 dozen of corn, the total selling price of all the corn, and then calculate the profit percentage.

$$\text{Total Cost Price} = 10 \times \text{CP} = 10 \times 180 = \text{Rs. } 1800$$

$$\text{Total Selling Price} = \text{Number of corn sold} \times \text{SP} = 120 \times 22 = \text{Rs. } 2640$$

$$\text{Profit} = \text{Selling Price} - \text{Cost Price} = 2640 - 1800 = \text{Rs. } 840$$

$$\text{Profit Percentage} = (\text{Profit} / \text{CP}) \times 100 = (840 / 1800) \times 100 = 46.67\%$$

Therefore, Janki's percent profit is 46.67%.

72. Answer: c

Explanation:

Given:-

$$x^2 + 4y^2 + z^2 - 4xy + 4yz - 2xz$$

Formula used :-

$$(a + b + c)^2 = a^2 + b^2 + c^2 + 2ab + 2bc + 2ca$$

Calculation:-

$$\Rightarrow x^2 + 4y^2 + z^2 - 4xy + 4yz - 2xz$$

$$\Rightarrow x^2 + (2y)^2 + z^2 - 2.(x).(2y) + 2.(z).(2y) - 2.(x).(z)$$

$$\Rightarrow (-x)^2 + (2y)^2 + z^2 + 2.(-x).(2y) + 2.(z).(2y) + 2.(-x).(z)$$

$$\text{Comparing } (a + b + c)^2 = a^2 + b^2 + c^2 + 2ab + 2bc + 2ca$$

We get

$$\Rightarrow (-x)^2 + (2y)^2 + z^2 + 2.(-x).(2y) + 2.(z).(2y) + 2.(-x).(z)$$

$$\Rightarrow (2y - x + z)^2$$

$\therefore$ The required answer is $(2y - x + z)^2$

73. Answer: b

Explanation:

Given:

A square with a side of length 18 cm.

Formula:

The area of a circle = πr^2 , where r is the radius of the circle.

Calculation:

To find the area of the biggest circle that could be drawn in a square of side 18 cm,
The side of the square will be equal to the diameter of the circle.

The length of side = 18

The radius of the circle = diameter/2 = $(18/2) = 9$

The area of the circle = $\pi \times r^2 = \pi \times (9)^2 = 81\pi$

Therefore, the area of the biggest circle that could be drawn in a square of side 18 cm is 81π .

74. Answer: b

Explanation:

Given:

The average salary per employee in the sales department is Rs. 350.

The average salary of 10 senior employees is Rs. 450 per employee.

The average salary of the remaining staff is Rs. 250 per employee.

Formula:

Average = (Sum of observations)/(Number of observations)

The sum of observations = Average $\times$ Number of observations

Calculation:

Let the total number of employees in the sales department be x .

The sum of salaries of all the employees in the sales department is:

$$(10 \times 450) + (x - 10) \times 250$$

The average salary per employee is given as Rs. 350, so we can write:

$$350 = [(10 \times 450) + (x - 10) \times 250]/x$$

Multiplying both sides by x , we get:

$$350x = (10 \times 450) + (x - 10) \times 250$$

Expanding the right-hand side, we get:

$$350x = 4500 + 250x - 2500$$

Simplifying and solving for x , we get:

$$100x = 2000$$

$$x = 20$$

Therefore, the total number of employees working in the sales department is 20.

75. Answer: a

Explanation:

Calculation:

Let's first calculate how much distance Ram has already covered:

$$(3/5) \times 250 \text{ km} = 150 \text{ km}$$

So, the remaining distance that Ram needs to cover is:

$$250 \text{ km} - 150 \text{ km} = 100 \text{ km}$$

Ram has 6 hours to complete the journey, but he wants to reach 30 minutes early. So, he wants to reach the destination in 5.5 hours.

Time remaining for Ram to complete the journey:

$$5.5 \text{ hours} - 3.5 \text{ hours} = 2 \text{ hours}$$

To cover the remaining 100 km in 2 hours, Ram needs to travel at a speed of:

$$100 \text{ km} / 2 \text{ hours} = 50 \text{ km/h}$$

Therefore, Ram needs to travel at a speed of 50 km/h to reach the examination center 30 minutes early.

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76. Answer: b

Explanation:

The correct answer is '**Apprehensive**'.

★ Key Points

- **ANXIOUS:** The word 'Anxious' is an adjective that conveys a feeling of worry, unease, or nervousness, typically about an imminent event or something with an uncertain outcome. (चिंतित)
 - **Example:** Sarah was anxious about her upcoming exam.

- **APPREHENSIVE:** The term 'Apprehensive' is an adjective as well and carries a similar meaning. It refers to being anxious or fearful that something bad or unpleasant will happen. (भयभीत)
 - **Example:** He felt apprehensive about the consequences.

Therefore, the correct answer is **Option 2, 'Apprehensive'** since it is the closest in meaning to 'Anxious'.

★ Additional Information

- **COLLECTED:** It means calm and composed. संकलित
- **ACCEPT:** This verb refers to consent to receive or undertake something offered. स्वीकार करना
- **FLAWLESS:** Which refers to being without any blemishes or mistakes. परिपूर्ण; निर्दोष

77. **Answer: b**

Explanation:

The correct meaning of the idiom "slack off" is option 2) To ease pressure on something.

Explanation:

"Slack off" is an idiom that means to decrease or reduce one's effort or activity, to relax, or to take it easy. It is often used in the context of work or study, where someone who was previously working hard or putting in a lot of effort suddenly starts to work less or become lazy. When someone "slacks off," they are reducing the amount of pressure or workload they are experiencing.

Here are the meanings of the other options in English and Hindi:

To understand a hidden meaning - This option is not the correct meaning of the idiom "slack off." "To understand a hidden meaning" means to discover or comprehend a meaning that is not immediately obvious. In Hindi - एक छिपी हुई अर्थ को समझना

To ease pressure on something – This is the correct meaning of the idiom "slack off."
"To ease pressure on something" means to reduce the workload or pressure on something. In Hindi – कुछ पर दबाव कम करना

To make most effort – This option is not the correct meaning of the idiom "slack off."
"To make most effort" means to put in the maximum amount of effort possible. In Hindi – सबसे अधिक प्रयास करना

To be very rude – This option is not the correct meaning of the idiom "slack off." "To be very rude" means to be impolite or disrespectful to someone. In Hindi – बहुत अकड़ दिखाना

So, the correct answer to the given question is option 2) To ease pressure on something.

78. Answer: d

Explanation:

The correct improvement for the underlined part of the sentence is option 4) been removed for.

Explanation:

The underlined part of the sentence "has not been remove for 6 months" contains a grammatical error. The verb 'remove' is in the present tense, but it should be in the past participle form to show that the action has already been completed. The correct form of the verb in this case is "been removed."

79. Answer: d

Explanation:

The correct indirect form of the given sentence is option 4) My mother said that she was meeting my father that day.

Explanation:

In indirect or reported speech, we report what someone said without using their exact words. The tense of the reported speech is usually shifted back one tense, and pronouns and time expressions are also changed accordingly.

In the given sentence, the reporting verb "said" is in the past tense, which means that the tense of the reported speech should also be shifted back one tense. "I am meeting your father today" is in the present continuous tense, which should be changed to the past continuous tense ("was meeting") in reported speech.

Therefore, the correct indirect form of the sentence is "My mother said that she was meeting my father that day".

80. Answer: b

Explanation:

The error is in option 2) "molecules raise into the air."

The correct form of the verb in this sentence is "rise" because it should be in the present tense. The correct sentence should read, "When we cook garlic, the sulphide molecules rise into the air and fill the room with their pleasing aroma."

81. Answer: c

Explanation:

The correct order of the parts of the sentence is: SQPR

★ Key Points

- **S. appears at the climax, the moment when**
- This sentence sets the context by stating that a product placement occurs at the climax, which is the moment of highest intensity or suspense in a narrative.

- **Q. our attention is fixated on what will happen next,**
- The sentence starting with "our attention is fixated" describes the state of focus or concentration that occurs during the climax. At this point, the audience is eagerly anticipating what will happen next in the story.
- **P. we are either less likely to notice the placement**
- This statement suggests that due to the heightened focus on the narrative's unfolding events, there is a reduced likelihood of noticing the product placement. The audience's attention is primarily directed towards the storyline rather than the presence of any advertising.
- **R. or more likely to be annoyed by it if we do notice it**
- In this final part, it is mentioned that if the audience does happen to notice the product placement during the climax, there is a higher chance of them being annoyed by it. This annoyance can stem from the distraction it poses or the perception of the advertisement interrupting the narrative flow.

The sentence is discussing the effects of product placement in a narrative, and the proper order of events is:

"If a product placement appears at the climax, the moment when our attention is fixated on what will happen next, we are either less likely to notice the placement or more likely to be annoyed by it if we do notice it."

82. **Answer: a**

Explanation:

The correct option to fill in the blank is "late."

Explanation of the options:

"Late" means near or towards the end of a particular period of time, in this case, the thirties.

"Lest" means with the intention of preventing something undesirable; it is not the correct word for the given sentence.

"Latter" means the second of two things mentioned, and it does not make sense in the given sentence.

"Least" means the smallest in amount or extent and is not relevant to the sentence. Therefore, "late" is the correct option to complete the sentence.

83. Answer: b

Explanation:

The correct option is (2) "Mount Kilimanjaro in Tanzania and on Mount Kenya".

★ Key Points

- In the original sentence, the preposition "on" is used for the first mountain but not for the second mountain, which creates a lack of parallelism.
- **Option (2) corrects this by adding "on" before "Mount Kenya" to create a parallel structure.**
- **Option (1)** adds the definite article "the" before "Mount Kenya", which is not necessary and doesn't address the lack of parallelism.
- **Option (3)** "No improvement" is incorrect as there is a need to improve the parallel structure in the sentence.
- **Option (4)** uses the preposition "to" instead of "on", which is not appropriate in this context.

★ Additional Information

- The use of the definite article "the" before "Mount Kenya" is not necessary in this sentence. When listing multiple items or locations, it is common to omit the article before each item to maintain parallelism and avoid repetition. In this case, "Mount Kilimanjaro in Tanzania" and "Mount Kenya" are both being referred to as specific mountains, so using "the" before one and omitting it before the other maintains parallel structure.
- The sentence remains clear and grammatically correct without the need for "the" before "Mount Kenya."

84. Answer: c

Explanation:

The most appropriate one-word substitution for the given group of words "Recovering from an illness or medical treatment" is "Convalescent".

Explanation:

Bohemian: A person who is socially unconventional and often involved in the arts.

Connoisseur: A person who is an expert in a particular area, especially in matters of art or taste.

Convalescent: A person who is recovering from an illness or medical treatment.

Cosmopolitan: A person who is familiar with and at ease in many different countries and cultures.

Hinglish Solutions:

दिए गए समूह के शब्दों के लिए सबसे उपयुक्त एक शब्दीय विस्तार "बीमारी या चिकित्सा से स्वस्थ होना" के लिए "Convalescent" है।

★ Hinglish

Bohemian: एक व्यक्ति जो सामाजिक रूप से अनुपचारिक है और अक्सर कला से जुड़ा होता है।

Connoisseur: एक व्यक्ति जो एक विशेष क्षेत्र में विशेषज्ञ है, खासकर कला या स्वाद के मामलों में।

Convalescent: एक व्यक्ति जो एक बीमारी या चिकित्सा से स्वस्थ हो रहा है।

Cosmopolitan: एक व्यक्ति जो कई विभिन्न देशों और संस्कृतियों में परिचित है और आसानी से अनुकूल है।

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85. Answer: b

Explanation:

The correct sequence of the jumbled sentence is:

C. Gifts the sorceress gave me.

B. A story and a parchment.

A. The story was the tale of Kunti, mother of Arjun

D. mother of Arjun. The parchment was a map of Bharat's many kingdoms.

Explanation:

There were two final gifts the sorceress gave me: a story and a parchment. The story was the tale of Kunti, mother of Arjun. The parchment was a map of Bharat's many kingdoms.

Therefore, the correct sequence of the jumbled sentence is option 1) CBAD.

86. Answer: b

Explanation:

Option 2 contains a grammatical error.

The correct sentence should be: "for he had neither gun nor spear."

Explanation:

The error in option 2 is the use of "or" instead of "nor." "Neither/nor" is used to indicate a negative correlation between two items, whereas "either/or" is used to indicate a positive correlation. In this case, the sentence is stating that the boy had neither a gun nor a spear, so "nor" is the correct word to use.

87. Answer: a

Explanation:

Meander: to wander aimlessly or follow a winding course.

Grave: a place of burial for a dead body, typically a hole dug in the ground and marked by a stone or a mound.

Gall: bold and impudent behavior.

Brave: ready to face and endure danger or pain; showing courage.

The correct option for a word that means the same as 'Gallivant' is option 1)

Meander.

★ Hinglish

Meander: भटकना, घूमना

Grave: कब्र, समाधि

Gall: धृष्टता, साहस

Brave: साहसी, बहादुर

88. Answer: b

Explanation:

The correct passive form of the given sentence is: "All the cash has been taken by Meghna." (Option 2)

Explanation

All the cash had been taken by Meghna. – This is a correct passive construction, but it uses the past perfect tense, which implies that the action was completed before another past action. In the given sentence, there is no such indication of a past action, so this option is not appropriate.

All the cash has been taken by Meghna. – This is the correct passive form of the given sentence. It uses the present perfect tense, which indicates that the action was completed in the past, but the result is still relevant in the present.

All the cash had been taking by Meghna. – This is incorrect as "taking" is not the correct form of the verb to use in a passive construction.

All the cash was taken by Meghna. – This is a correct passive construction, but it uses the past tense, which implies that the action was completed in the past and is not relevant in the present. The present perfect tense is a more appropriate choice in this case.

89. Answer: c

Explanation:

The correct answer is Option 3.

★ Key Points

- Option 1) Inarticulate: This word means unable to express oneself clearly or fluently. It is the opposite of the meaning of 'glib' which means fluent and voluble but insincere and shallow. Therefore, this option is incorrect.
- Option 2) Implausible: This word means not seeming reasonable or probable; failing to convince. It is not a synonym of 'glib'. Therefore, this option is incorrect.
- **Option 3) Easy: This word means achieved without great effort; presenting few difficulties. This option is a synonym of 'glib'. Therefore, this option is correct.**
- Option 4) Sincere: This word means free from pretence or deceit; proceeding from genuine feelings. It is the opposite of the meaning of 'glib' which means fluent and voluble but insincere and shallow. Therefore, this option is incorrect.

Hence, the correct answer is option 3) Easy.

90. Answer: c

Explanation:

The correct answer is 'Option 3' i.e. 'Something that is bought without examining properly'.

★ Key Points

- The idiom **"Pig in a poke"** refers to buying or accepting something without first inspecting it or knowing its value, akin to buying a pig concealed in a bag (poke) without seeing it first. (बगैर ठीक से जांचे सामान को खरीदना)
 - **For example:** "He bought the car online and it turned out to be a pig in a poke – it had numerous mechanical issues."
- The correct meaning "Something that is bought without examining properly" aligns with this concept. It refers to purchasing or acquiring something without a thorough inspection (बिना ठीक से जांचे वस्तु को खरीदना)

- **For example:** "Buying a house without a proper inspection can turn out to be a situation of buying something that is bought without examining properly."

Therefore, the **correct answer** is- 'Option 3' i.e. '**Something that is bought without examining properly**'.

★ Additional Information

- **Option 1** 'To bring something to an end' signifies finalizing or concluding a matter or situation. (किसी चीज़ को अंत करना)
- **Option 2** 'A brave man amongst all the cowards' signifies a person who shows courage even when everyone else around them is scared. (डरपोकों के बीच एक बहादुर आदमी)
- **Option 4** 'To obstruct someone's work' implies creating hurdles or interruptions in someone else's tasks. (किसी के काम में बाधा डालना)

91. **Answer: c**

Explanation:

The correct answer is **Saint**.

★ Additional Information

Vile: unpleasant, disgusting, or morally reprehensible (घिनौना)

Junkie: a drug addict (नशेड़ी)

Saint: a person acknowledged as holy or virtuous and typically regarded as being in heaven after death (महात्मा)

Atrocious: horrifyingly wicked (नृशंस)

The opposite of "fiend" which means an evil or wicked person would be a person who is good or virtuous.

Therefore, the correct answer is option 3) Saint.

Option 1) Vile means unpleasant or morally reprehensible and is not an antonym of "fiend."

Option 2) Junkie means a drug addict and is not related to the meaning of "fiend."

Option 4) Atrocious means horrifyingly wicked and can be a synonym of "fiend," but it is not the opposite

92. Answer: b

Explanation:

The correct order of the sentence is: **PQSR**

Explanation:

The sentence starts with an independent clause. It introduces the subject of the sentence, which is 'the researchers'.

R - "performed experiments and developed a model" describes the actions taken by the researchers. They conducted experiments and created a model.

Q - "which explains how the worm's taste sensors" introduces the aspect being explained by the model developed by the researchers. It focuses on the worm's taste sensors and how they work.

S - "process information from the environment" describes the process carried out by the worm's taste sensors. They receive information from the environment.

R - "to direct its foraging behaviour" the last part of the sentence explains the purpose of the model developed by the researchers. It helps the worm to direct its foraging behaviour.

Therefore, the correct order of the sentence is **PQSR**.

93. Answer: b

Explanation:

Option 2 is the correct answer: "No sooner had the news leaked out than"

Explanation:

The original sentence uses the phrase "hardly had" to indicate that something happened immediately after something else. The correct phrase to replace it with is "no sooner had."

★ **Additional Information**

Option 1, "No sooner did the news leaked out than," is incorrect because it uses the wrong verb tense. "Leaked" is past tense, but "did" requires present tense.

Option 3, "No sooner had the news leaked out that," is also incorrect because it uses the wrong conjunction. "That" is not the correct conjunction to use after "leaked out" in this context.

Option 4, "No improvement," is incorrect because the original sentence needs to be improved to make grammatical sense.

94. Answer: c

Explanation:

The incorrectly spelled word is "PERCIEVE" (Option 3).

Explanation:

"VISCOUS" is correctly spelt and means having a thick, sticky consistency between solid and liquid.

"BENEVOLENT" is correctly spelt and means well-meaning and kind.

"PERCIEVE" is incorrectly spelt. The correct spelling is "PERCEIVE," which means to become aware or conscious of something through the senses.

"BOISTEROUS" is correctly spelt and means energetic and noisy.

Therefore, the answer is option 3 - PERCIEVE.

95. Answer: a

Explanation:

Option 1, "VACILLATE," is the correctly spelt word, meaning to waver or hesitate in decision-making.

Option 2, "STILLETOES," is misspelt. The correct spelling is "STILETTOS," which refers to a type of high-heeled shoe.

Option 3, "OBSEQUIOS," is misspelt. The correct spelling is "OBSEQUIOUS," which means obedient or submissive.

Option 4, "MAINTAINANCE," is misspelt. The correct spelling is "MAINTENANCE," which refers to the act of maintaining or preserving something.

Therefore, the correct answer is option 1, "VACILLATE."

96. Answer: a

Explanation:

The given blank requires an adjective that describes the years of the speaker's childhood. The years of childhood are being described as lonely in the previous sentence.

Hence, the most appropriate option to fill in the blank would be "long".

Therefore, the correct answer is option 1) long.

97. Answer: a

Explanation:

The correct option to fill in the blank No. 2 is "seemed" as it makes the sentence grammatically and contextually correct.

★ Key Points

- **Seemed:** This is the past tense of the verb "seem," which is used to indicate an apparent state or condition, or to make something appear in a certain way. For instance, "She seemed happy," suggests that she appeared to be happy, but it doesn't necessarily mean that she was truly happy.

★ Additional Information

- **Perhaps:** This is an adverb that indicates uncertainty or possibility. It is used when you are not certain about something. For example, in the sentence, "Perhaps it will rain later," the speaker is suggesting that it might rain later, but they aren't sure.
- **Besides:** This can function as a preposition or an adverb. As a preposition, it means 'in addition to' or 'apart from'. For example, "Besides basketball, she also plays tennis," meaning she plays tennis in addition to basketball. As an adverb, it can mean 'moreover' or 'also'. For example, "I don't want to go to the party. Besides, I have to study," where 'besides' introduces an additional reason.
- **Thought:** This is the past tense of the verb "think," which means to have a particular belief or idea. It also refers to the act or process of considering, believing, or remembering something. For example, "I thought you were going to the store," suggests that the speaker previously believed that the other person was going to the store.

★ Hinglish

- **Seemed:** "Seemed" का अर्थ होता है "प्रतीत होना". यह शब्द एक स्थिति या अवस्था को दिखाने या किसी चीज़ को एक निश्चित तरह से प्रदर्शित करने के लिए इस्तेमाल किया जाता है।
- उदाहरण के लिए, "वह खुश प्रतीत हुई," का अर्थ होता है कि वह खुश दिख रही थी, लेकिन यह अवश्य नहीं है कि वह वास्तव में खुश थी।
- **Perhaps:** "Perhaps" का मतलब होता है "शायद" या "संभव". यह तब इस्तेमाल किया जाता है जब आप किसी चीज़ के प्रति निश्चित नहीं होते।
- उदाहरण के लिए, "शायद बाद में बारिश हो सकती है," का मतलब होता है कि शायद बाद में बारिश हो सकती है, लेकिन वक्ता सुनिश्चित नहीं है।

- **Besides:** "Besides" का अर्थ होता है "के अलावा" या "साथ ही". यह एक पूर्वसर्ग या क्रिया-विशेषण के रूप में कार्य कर सकता है।
- उदाहरण के लिए, "बास्केटबॉल के अलावा, वह टेनिस भी खेलती है," का मतलब होता है कि वह बास्केटबॉल के अलावा टेनिस भी खेलती है।
- **Thought:** "Thought" का अर्थ होता है "सोचा". यह "सोचना" के क्रिया का भूतकाल है, जो किसी विशेष विचार या आस्था को दर्शाता है। यह किसी चीज़ को विचार करने, विश्वास करने, या याद करने की प्रक्रिया को भी दर्शाता है।
- उदाहरण के लिए, "मैंने सोचा कि आप दुकान जा रहे थे," का अर्थ होता है कि वक्ता ने पहले सोचा था कि दूसरा व्यक्ति दुकान जा रहा था।

98. Answer: d

Explanation:

The correct answer for the blank in question number 3 is "**around**".

★ Key Points

- In this context, "**around**" is the most appropriate choice because it accurately conveys the intended meaning of an oppressive, enclosing force.
- The phrase "tighten its grip around me" is idiomatic and paints a picture of the feeling of restriction and confinement that the speaker is feeling, as if being trapped or squeezed by the palace.

Therefore, the **correct sentence** is:

★ Additional Information

- Option 1, "**encompassing**", means surrounding completely, but it is not typically used in conjunction with the verb "tighten", making it a less common and suitable choice than "around".
- Option 2, "**revolving**", usually means to move in a circle around a central point, but this sense of motion doesn't fit with the static, oppressive image being described.
- Option 3, "**surround**", is similar to "around" but does not carry the same idiomatic usage in this case. "Surround" doesn't convey the same sense of

tightening or squeezing that "around" does when used with "tighten its grip", making "around" the most fitting and contextually appropriate selection.

★ Hinglish

- इस संदर्भ में, **"around"** सबसे उपयुक्त विकल्प है क्योंकि यह एक दमनकारी, घेरे हुए बल का सही अर्थ व्यक्त करता है। "tighten its grip around me" वाक्यांश मुहावरेपूर्ण है और यह कविता में प्रतिबंध और संकुचन की भावना का चित्रण करता है, जैसे कि पैलेस द्वारा फंसा या दबाया जाना। इसलिए, सही वाक्य है:
- विकल्प 1, **"encompassing"**, का अर्थ होता है पूरी तरह से घेरना, लेकिन आमतौर पर इसे क्रिया "tighten" के साथ उपयोग नहीं किया जाता है, जिससे यह "around" की तुलना में कम सामान्य और उपयुक्त विकल्प होता है।
- विकल्प 2, **"surround"**, का आमतौर पर अर्थ होता है किसी केंद्रीय बिंदु के चारों तरफ घूमना, लेकिन यह गतिशीलता का भाव वर्णित स्थिर, दमनकारी छवि के साथ फिट नहीं होता है। विकल्प 3, **"surround"**, "around" के समान है लेकिन इसके पास इस मामले में मुहावरेपूर्ण उपयोग नहीं होता। "घेरा" "tighten its grip" के साथ उपयोग करने पर "around" की तुलना में घटित या दबाव की यथार्थ महसूस नहीं करता है, जिससे "around" सबसे उपयुक्त और प्रासंगिक चयन होता है।

99. Answer: d

Explanation:

The correct answer is "breathe" (option 4).

Explanation:

The sentence talks about a difficult situation in the narrator's childhood, where the father's palace is tightening its grip on them, making it difficult for the narrator to even breathe. Here, the word 'breathe' is used in an infinitive form, which means that it does not require an auxiliary verb like 'had' or 'have.'

Let's look at the other options:

breath - This is a noun and does not fit in the sentence contextually.

breathed - This is a past participle form and is not the correct tense for this sentence.

breathing - This is a present participle form and does not fit grammatically or contextually in this sentence.

Therefore, the correct answer is "breathe"

100. Answer: b

Explanation:

The most appropriate option to fill in the blank No. 5 is "story".

Explanation:

The sentence talks about a child who went to their nurse and asked for a story during the lonely years of their childhood. The child made the nurse tell them the story of their birth repeatedly. Therefore, the most appropriate option to fill in the blank No. 5 is "story", which means a narrative or tale.

Key Points:

The blank No. 5 requires a word that refers to a narrative or tale.

The sentence mentions that the child made the nurse tell them the story repeatedly.

The word "story" fits the context and meaning of the sentence.

Additional Information:

A "poem" is a piece of writing that uses figurative language and rhythm to evoke emotions and ideas.

An "ode" is a type of poem that celebrates or praises a person, place, or thing.

"News" refers to information about current events or recent happenings, which does not fit the context of the sentence.