



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 CGL 2018 Tier-I Previous Year Paper (06-Jun-2019) (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. Select the set in which the numbers are related in the same way as are the numbers of the following set. (+2, -0.5)

(8, 12, 24)

- a. (6, 9, 18)
- b. (6, 11, 18)
- c. (9, 18, 27)
- d. (12, 20, 40)

-
2. If CAB is coded as 6 and BED is coded as 40, then how will HAD be coded as? (+2, -0.5)

- a. 32
- b. 16
- c. 52
- d. 46

-
3. Which two signs should be interchanged in the following equation to make it correct? (+2, -0.5)

$$10 + 5 \div 10 \times 8 - 10 = 16$$

- a. $\times$ and $+$
- b. $-$ and $+$

c. $\div$ and $\times$

d. $+$ and $\div$

4. Two different positions of the same dice are shown. Which number will be at the top if 4 is at the bottom? (+2, -0.5)



a. 3

b. 1

c. 5

d. 6

5. Three of the following four words are alike in a certain way and one is different. Pick the odd word out. (+2, -0.5)

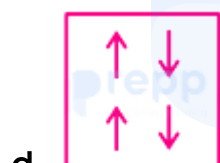
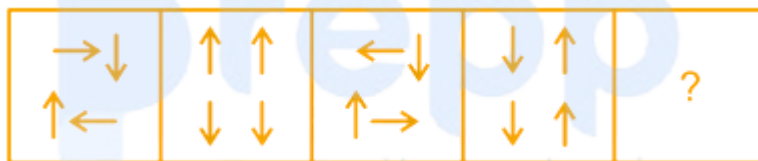
a. Godavari

b. Tapti

c. Krishna

d. Mahanadi

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



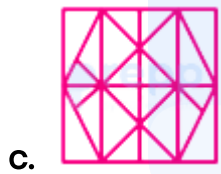
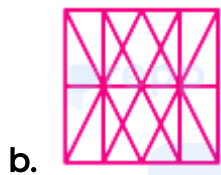
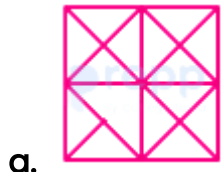
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7. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster. (+2, -0.5)

MNOP: LONQ: : FGHI : ?

- a. EGHJ
- b. DHGK
- c. GFIJ
- d. EHGJ

8. Select the option in which the given figure is embedded (Rotation is not allowed) (+2, -0.5)



9. Arrange the following words in a logical and meaningful order. (+2, -0.5)

1. Student
2. Job
3. Interview
4. Education
5. Retirement

6. Degree

- a. 3, 5, 4, 6, 1, 2
- b. 5, 3, 2, 1, 4, 6
- c. 1, 4, 6, 3, 2, 5
- d. 1, 5, 3, 6, 4, 2

10. How many squares are there in the following figure?

(+2, -0.5)



- a. 16
- b. 12
- c. 18
- d. 14

11. Which number will replace the question mark (?) in the following series?

(+2, -0.5)

98, 95, 86, 82, 66, ?, 36

- a. 61
- b. 58
- c. 63

d. 60

12. Select the set in which the numbers are related in the same way as are the numbers of the following set. (+2, -0.5)

(5, 13, 12)

a. (15, 19, 13)

b. (6, 10, 8)

c. (11, 15, 9)

d. (13, 17, 11)

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

Apathy: Enthusiasm

a. Condemnation : Reverence

b. Treaty : Friendship

c. Enrolment : Employment

d. War : Attack

14. Select the number-pair in which the two numbers are related in the same way as are the two numbers of the following number-pair. (+2, -0.5)

7 : 32

a. 12 : 85

b. 16 : 145

c. 3 : 11

d. 13 : 98

- 15.** Select the combination of letters that when sequentially placed in the gaps of the given letter series will complete the series. (+2, -0.5)

bac_cab_cd_a_ac_ca

a. dacbd

b. dcba

c. cadbc

d. bdabc

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

a. RQST

b. MLNO

c. FGHJ

d. CBDE

- 17.** The sequence of folding a piece of square paper (figures X and Y) and the manner in which the folded paper has been cut (figure Z) are shown. How will the paper appear when unfolded? (+2, -0.5)



18. Two mixtures contain milk and juice in the ratio of 2 : 1 and 4 : 5. If equal volumes of the two mixtures are mixed together, what would be ratio of milk to juice in the resulting mixture?

(+2, -0.5)

- a. 7 : 5
- b. 1 : 1
- c. 5 : 3
- d. 5 : 4

19. D is the son of C and the brother of E, who is the niece of F. C is the sister of B and the aunt of A. B's father has two children, a son and a daughter. If A is the son of F, how is F related to C? (+2, -0.5)

- a. Sister-in-law
- b. Aunt
- c. Sister
- d. Cousin

20. Two statements are given followed by three conclusions numbered I, II and III. Assuming the statements to be true even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statement. (+2, -0.5)

Statements:

No crows is a bird.

All birds are animals.

Conclusion:

I. Some animals are crows.

II. Some animals are birds.

III. No animal is a crow.

- a. None of the conclusions follows
- b. Only conclusion III follows
- c. Conclusion II and either conclusion I or III follows

d. Only conclusions I and III follow

21. Three of the following four numbers are alike in a certain way and one is different. Pick the number that is different from the rest. (+2, -0.5)

a. 65

b. 217

c. 338

d. 28

22. Select the correct mirror image of the given figure when the mirror is placed to the right of the figure. (+2, -0.5)



a.



b.



c.



d.

23. Select the Venn diagram that best illustrates the relationship between the following classes. (+2, -0.5)

Snakes, Reptiles, Poisonous



a.



b.



c.



d.

24. In a code language, COMPUTER is written as OCREPMTU. How will DAUGHTER be written in the same language? (+2, -0.5)

- a. ADREGUTH
- b. READTHGU
- c. ADTHREGU
- d. DERUGTH

25. 'Cinema' is related to 'Audience' in the same way as 'Church' is related to '_____'. (+2, -0.5)

- a. Concentration
- b. Congregation
- c. Meditation
- d. Prayer

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General Awareness

26. What is deposited on iron in the process of galvanisation? (+2, -0.5)

- a. Tin
 - b. Zinc
 - c. Copper
 - d. Aluminium
-

27. Which of the following ministries implements the Mid-day Meal scheme? (+2, -0.5)

- a. Ministry of Home Affairs
 - b. Ministry of Human Resource Development
 - c. Ministry of Social Welfare
 - d. Ministry of Social Justice and Empowerment
-

28. The Badami Chalukyas first had their capital at _____ before they moved it to Badami. (+2, -0.5)

- a. Aihole
 - b. Pattadakal
 - c. Bijapur
 - d. Hubli
-

29. _____, which connects Sikkim with Tibet, was closed after the Chinese aggression on India in 1962 but was reopened in 2006 as the governments of the two countries decided to enhance their trade through land routes. (+2, -0.5)

- a. Lanak La
- b. Imis La
- c. Pensi La
- d. Nathu La

30. _____ was the **first Muslim ruler** whose empire covered almost the whole of India up to its extreme south. (+2, -0.5)

- a. Ghiyas ud din Balban
- b. Jalal-ud-din Khilji
- c. Alauddin Khilji
- d. Feroz Shah Tughlaq

31. Where is the Bandipur National Park located? (+2, -0.5)

- a. Gujarat
- b. Sikkim
- c. Karnataka
- d. Kerala

32. Which of the following destroys the ozone layer? (+2, -0.5)

- a. Sulphur
 - b. Chlorine
 - c. Carbon
 - d. Silicon
-

33. Which of the following comes under the Quarternary sector? (+2, -0.5)

- a. Information Technology
 - b. Fisheries
 - c. Manufacturing
 - d. Mining
-

34. In February 2019, ----- won a gold medal at the Makran Cup in Chabahar, Iran. (+2, -0.5)

- a. Rohit Tokas
 - b. Deepak Singh
 - c. Manish Kaushik
 - d. Satish Kumar
-

35. Which of the following metals is the most reactive element? (+2, -0.5)

- a. Copper
 - b. Calcium
 - c. Iron
 - d. Zinc
-

36. Who was awarded the Rabindranath Tagore Literary Prize 2019 for the Novel 'Solo'? (+2, -0.5)

- a. Amitabh Ghosh
 - b. Rana Dasgupta
 - c. Jhumpa Lahiri
 - d. Nayanjot Mukherjee
-

37. In February 2019, India won _____ gold medal/s and five silver medals at the Makran Cup Boxing in Chabahar, Iran. (+2, -0.5)

- a. Three
 - b. Four
 - c. One
 - d. Two
-

38. Which of the following metals is the most ductile metal? (+2, -0.5)

- a. Copper

- b. Tin
 - c. Aluminium
 - d. Gold
-

39. The colourful art named Nandna block print, which uses graceful yet aligned arrangements of motifs on fabric, is practised in Tarapur village of ----- (+2, -0.5)

- a. Madhya Pradesh
 - b. Uttarakhand
 - c. Maharashtra
 - d. Odisha
-

40. Who among the following was a slave of Muhammad Ghori? He became the ruler after the death of his master and founded the Slave Dynasty. (+2, -0.5)

- a. Qutub-ud-din Aibak
 - b. Iltutmish
 - c. Ghiyas ud din Balban
 - d. Nasir-ud-din Mahmud
-

41. Right to move freely throughout the territory of India' is a fundamental right under ----- of the Constitution of India. (+2, -0.5)

- a. Article 19

- b.** Article 24
 - c.** Article 21
 - d.** Article 14
-

42. Which is the longest national highway in India? (+2, -0.5)

- a.** National Highway 48
 - b.** National Highway 27
 - c.** National Highway 53
 - d.** National Highway 44
-

43. Who founded and named the science of electromagnetism? (+2, -0.5)

- a.** James Clerk
 - b.** Hans Christian Oersted
 - c.** Michael Faraday
 - d.** Andre Marie Ampère
-

44. International Day of Forests 2019 was observed on 21st March with the theme _____ to raise awareness on how sustainably managed forests provide a wide array of contributions. (+2, -0.5)

- a.** Forests Our Saviour
- b.** Forests and Environment

- c. Pollution-free Forests
 - d. Forests and Education
-

45. Lok Adalats have been created under _____. (+2, -0.5)

- a. Arbitration and Conciliation Act
 - b. Administration of Justice Act
 - c. Legal Services Authority Act
 - d. Legal Conciliation Act
-

46. The popular Bagh cave paintings are found in _____. (+2, -0.5)

- a. Madhya Pradesh
 - b. Odisha
 - c. Sikkim
 - d. Himachal Pradesh
-

47. Which Indian received the Nobel Peace Prize after Mother Teresa? (+2, -0.5)

- a. K Radhakrishnan
 - b. Fali Nariman
 - c. P Sathasivam
 - d. Kailash Satyarthi
-

48. World ___ Day 2019 was observed on 22nd March with the theme 'Leaving no one behind' to focus on marginalised groups. (+2, -0.5)

- a. Water
- b. Forest
- c. Environment
- d. Petroleum

49. Name the Indian Space Research Organisation (ISRO) chairman and Padma Bhushan awardee who created and unleashed a historical moment when Mars Orbiter became the first Indian spacecraft to enter Martian orbit in a maiden attempt. (+2, -0.5)

- a. Nandan Nilekani
- b. K Radhakrishnan
- c. Fali Nariman
- d. Sundar Pichai

50. Which was the first Muslim dynasty that ruled India? (+2, -0.5)

- a. Tughlaq dynasty
- b. Lodhi dynasty
- c. Khilji dynasty
- d. Slave dynasty

Quantitative Aptitude

51. **Direction:** The table shows the production of different types of cars by a company (in thousands) in 5 years. (+2, -0.5)

Car					
	A	B	C	D	E
Year					
2014	52	54	48	46	64
2015	47	45	53	50	45
2016	48	47	56	54	65
2017	43	50	57	67	63
2018	38	40	54	68	70

The average production of type D cars in 5 years is what percent less than the production of type E cars in 2018?

- a. 16.8
- b. 15.9
- c. 17.4
- d. 18.6

52. **Direction:** The table shows the production of different types of cars by a company (in thousands) in 5 years. (+2, -0.5)

Car					
	A	B	C	D	E
Year					
2014	52	54	48	46	64
2015	47	45	53	50	45
2016	48	47	56	54	65
2017	43	50	57	67	63
2018	38	40	54	68	70

If the data related to the production of cars in 2018 is represented by pie chart, then the central angle of the sector representing the production of type C cars will be:

- a. 93°
- b. 72°
- c. 59°
- d. 91°

53. **Direction:** The table shows the production of different types of cars by a company (in thousands) in 5 years. (+2, -0.5)

Car					
	A	B	C	D	E
Year					
2014	52	54	48	46	64
2015	47	45	53	50	45
2016	48	47	56	54	65
2017	43	50	57	67	63
2018	38	40	54	68	70

The total production of type B cars in all the five years is what percent more than the total production of type A, B and D cars in 2017?

- a. 47.5
- b. 32.2
- c. 57.3
- d. 49.5

54. **Direction:** The table shows the production of different types of cars by a company (in thousands) in 5 years. (+2, -0.5)

Car					
	A	B	C	D	E
Year					
2014	52	54	48	46	64
2015	47	45	53	50	45
2016	48	47	56	54	65
2017	43	50	57	67	63
2018	38	40	54	68	70

What is the ratio of the total production of type C cars in 2015 and type D cars in 2017 taken together to the total production of type B cars in 2016 and type A cars in 2017 taken together?

- a. 11 : 9
- b. 4 : 3
- c. 12 : 112
- d. 13 : 10

55. A and B are travelling towards each other from the points P and Q respectively. After crossing each other, A and B take $6\frac{1}{8}$ hours and 8 hours, respectively, to reach their destinations Q and P, respectively. If the speed of B is 16.8 km/h, then the speed (in km/hr) of A is: (+2, -0.5)

a. 20.4
b. 20.8
c. 19.2
d. 19.8

56. A circle is inscribed in $\triangle ABC$, touching AB at P, BC at Q and AC at R. If AR = 5 cm, RC = 6 cm and AB = 12 cm, then the perimeter of $\triangle ABC$ is: (+2, -0.5)

a. 32 cm
b. 37 cm
c. 36 cm
d. 40 cm

57. $\frac{\sin \theta - \cos \theta + 1}{\sin \theta + \cos \theta - 1} = ?$ (+2, -0.5)

a. $\sec \theta - \tan \theta$
b. $\sec \theta \tan \theta$
c. $\sec \theta + \tan \theta$
d. $\sec \theta \sin \theta$

58. The value of $(5 + 3 \div 5 \times 5) \div (3 \div 3 \text{ of } 6) \text{ of } (4 \times 4 \div 4 \text{ of } 4 + 4 \div 4 \times 4)$ is: (+2, -0.5)

a. $8\frac{1}{5}$

b. $7\frac{1}{3}$

c. $6\frac{2}{3}$

d. $9\frac{3}{5}$

59. The value of $\sqrt{(\sec^2 \theta + \operatorname{cosec}^2 \theta)} \times \sqrt{(\tan^2 \theta - \sin^2 \theta)}$ is equal to: (+2, -0.5)

a. $\sin \theta \cos^2 \theta$

b. $\sin \theta \sec^2 \theta$

c. $\operatorname{cosec} \theta \cos^2 \theta$

d. $\operatorname{cosec} \theta \sec^2 \theta$

60. A person sold an article at a loss of 8%. Had he sold it at a gain of 10.5%, he would have received Rs. 92.50 more. To gain 12%, he should have sold it for: (+2, -0.5)

a. Rs. 560

b. Rs. 580

c. Rs. 537.40

d. Rs. 540.50

61. If the 8-digit number $2074x4y2$ is divisible by 88, then the value of $(4x + 3y)$ is: (+2, -0.5)
- a. 45
 - b. 42
 - c. 49
 - d. 36
-

62. If $x = a + 1/a$ and $y = a - 1/a$ then $\sqrt{(x^4 + y^4 - 2x^2y^2)}$ is equal to: (+2, -0.5)
- a. 8
 - b. $8/a^2$
 - c. $16a^2$
 - d. 4
-

63. When x is subtracted from each of 21, 22, 60 and 64, the numbers so obtained, in this order, are in proportion. What is the mean proportional between $(x + 1)$ and $(7x + 8)$? (+2, -0.5)
- a. 21
 - b. 24
 - c. 27
 - d. 18
-

64. Pipes A and B can fill a tank in one hour and two hours respectively while pipe C can empty the filled the tank in one hour and fifteen minutes. A and C are turned on together at 9 a.m. after 2 hours, only A is closed and B is turned on. When will the tank be emptied? (+2, -0.5)

- a. 12 : 10 p.m.
- b. 10 : 30 a.m.
- c. 12 : 20 p.m.
- d. 11 : 30 a.m.

65. ABCD is a cyclic quadrilateral whose diagonals intersect at P. If $AB = BC$, $\angle DBC = 70^\circ$ and $\angle BAC = 30^\circ$, then the measure of $\angle PCD$ is: (+2, -0.5)

- a. 50°
- b. 35°
- c. 55°
- d. 30°

66. The average of thirteen numbers is 80. The average of the first five numbers is 74.5 and that of the next five numbers is 82.5. The 11th numbers is 6 more than the 12th number and the 12th number is 6 less than the 13th number. What is the average of the 11th and the 13th numbers? (+2, -0.5)

- a. 87
- b. 87.5

c. 86

d. 86.5

67. G is the centroid of the triangle ABC, where AB, BC and CA are 7 cm, 24 cm and 25 cm respectively, then BG is: (+2, -0.5)

a. $4\frac{1}{6}$ cm

b. $6\frac{1}{3}$ cm

c. $8\frac{1}{3}$ cm

d. $5\frac{1}{2}$ cm

68. A sum of Rs. 15,000 is lent at 16% p.a. compound interest. What is the difference between the compound interest for the second year and the third year? (+2, -0.5)

a. Rs. 445.44

b. Rs. 548

c. Rs. 454.88

d. Rs. 544

69. If $(8x^3 - 27y^3) \div (2x - 3y) = (Ax^2 + Bxy + Cy^2)$, then the value of $(2A + B - C)$ is: (+2, -0.5)

a. 5

b. 4

c. 3

d. 6

70. The volume of a metallic cylindrical pipe is 7480 cm^3 . If its length is 1.4 m and its external radius is 9 cm, then its thickness (given $\pi = 22/7$) is: (+2, -0.5)

a. 1.2 cm

b. 0.9 cm

c. 0.8 cm

d. 1 cm

71. ABCD is a trapezium in which $AB \parallel DC$ and its diagonals intersect at P. If $AP = (3x - 1) \text{ cm}$, $PC = (5x - 3) \text{ cm}$, $BP = (2x + 1) \text{ cm}$ and $PD = (6x - 5) \text{ cm}$, then the length of DB is: (+2, -0.5)

a. 10 cm

b. 16 cm

c. 12 cm

d. 14 cm

72. If $ab + bc + ca = 8$ and $a^2 + b^2 + c^2 = 20$, then a possible value of $\frac{1}{2} \times (a + b + c)[(a - b)^2 + (b - c)^2 + (c - a)^2]$ is: (+2, -0.5)

a. 72

b. 56

c. 820

d. 84

73. A shopkeeper marks his goods at 40% more than their cost price and allows a discount of 25% on the marked price. His gain or loss percent is: (+2, -0.5)

a. 5% gain

b. 5% loss

c. 10% loss

d. 15% gain

74. The income of A is 50% more than that of B. If the income of A is increased by 40% and the income of B is increased by 90%, then the percentage increased in their combined income will be: (+2, -0.5)

a. 70

b. 64

c. 55

d. 60

75. If $12\cot^2\theta - 3\operatorname{cosec}\theta + 32 = 0$, $0^\circ < \theta < 90^\circ$, then the values of $\tan\theta$ will be: (+2, -0.5)

a. $4/5, 5\sqrt{7}/7$

b. $4/3, 3\sqrt{7}/7$

c. $4/5, 4/3$

d. $5/4, 4/3$

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Your Personal Exams Guide

English Comprehension

76. Select the wrongly spelt word. (+2, -0.5)

- a. explain
- b. expereince
- c. except
- d. expire

77. Select the most appropriate word to fill in the blank. (+2, -0.5)

The burning of the effigy of Ravana on Dussehra _____ the burning of all evils.

- a. symbolizes
- b. intensifies
- c. epitomizes
- d. personifies

78. Given below are four jumbled sentences. Select the option that gives their correct order. (+2, -0.5)

A. Mango, the so-called "king of fruits", is something of a national obsession in India.

B. There was a bumper crop of mangoes in different states.

C. It resulted in prices coming down and sales going up – much to the delight of buyers and sellers alike.

D. 2017 proved to be a very good year for mango lovers.

- a. ADBC
- b. ADCB
- c. CDAB
- d. CADB

79. Select the most appropriate synonym of the given word.

(+2, -0.5)

TRIUMPH

- a. peace
- b. attack
- c. victory
- d. fight

80. Given below are four jumbled sentences. Select the option that gives their correct order.

(+2, -0.5)

- A. Around 600 million of them live in areas of high to extreme water stress.
- B. India is suffering from the worst water crisis, with one billion people living in water scarcity.
- C. This is even more than that of China and US combined.
- D. The reason is that at 24 per cent, India uses the most groundwater drawn out globally.

- a. BADC

b. BDAC

c. ADCB

d. ACBD

-
81. Select the most appropriate option to substitute the underlined segment (+2, -0.5)
in the given sentence. If no substitution is required, select No improvement.

If you listen to English news, it improve your English.

a. it improved

b. it is improving

c. it will improve

d. No improvement

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

At night, lock the outer gate.

a. The outer gate is locked at night.

b. The outer gate is requested to be locked at night.

c. Let the outer gate be locked at night.

d. The outer gate be locked at night.

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

give someone the cold shoulder

- a. pamper someone
 - b. ignore someone
 - c. give away a secret
 - d. do something pointless
-

84. Select the most appropriate meaning of the given idiom.

(+2, -0.5)

Pull yourself together

- a. try to understand
 - b. do a good job
 - c. calm down
 - d. go to sleep
-

85. Select the word which means the same as the group of words given.

(+2, -0.5)

An inscription on a tombstone written in memory of the deceased

- a. slab
 - b. epitaph
 - c. pillar
 - d. basilica
-

86. Select the antonym of the given word.

(+2, -0.5)

EMINENT

- a. inconspicuous
- b. exalted
- c. impressive
- d. distinguished

87. Select the wrongly spelt word.

(+2, -0.5)

- a. controversial
- b. contamporary
- c. conquer
- d. cooperation

88. Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select No improvement.

(+2, -0.5)

I try to solve this problem at least for two hours.

- a. have been trying to solve
- b. No improvement
- c. am try to solve
- d. tried to be solving

89. Select the most appropriate synonym of the given word.

(+2, -0.5)

INDELIBLE

- a. ineffective
 - b. illegal
 - c. inerasable
 - d. illegible
-

90. In the sentence identify the segment which contains the grammatical error. (+2, -0.5)

Cyclone Idai is regarded as one of the worst tropical cyclone on record to affect Africa and the Southern Hemisphere as a whole.

- a. as a whole
 - b. Cyclone Idai is regarded
 - c. to affect Africa
 - d. the worst tropical cyclone
-

91. In the sentence identify the segment which contains the grammatical error. (+2, -0.5)

Every employee of the company were given a two-bedroom flat as a Diwali bonus.

- a. as Diwali bonus
- b. a two bedroom flat
- c. Every employee
- d. were given

92. Select the most appropriate word to fill in the blank.

(+2, -0.5)

There is hope that better forestry management will help in the _____ of the wildlife that is constantly facing threats because of increasing human activities.

- a. salvation
- b. guarding
- c. conservation
- d. supervision

93. 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 blank.

(+2, -0.5)

Pigeon racing has become increasingly popular in parts of China

(1) _____ the country's elite and its middle class. Sun Yan, the deputy general-secretary of Beijing Racing Pigeons Association, (2) _____ that at least 100,000 pigeon breeders live in Beijing, and (3) _____ 90,000 of them are registered with Racing Pigeons Associations at (4) _____ levels, to qualify for the games held in the spring and autumn.

Competitions can be lucrative for (5) _____ owners, with some prizes amounting to tens of thousands of dollars. Liu said in recent years, pigeon racing has been surging in popularity across China.

Select the most appropriate option for blank No. 1.

- a. among
- b. against
- c. about

d. along

94. 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 blank. (+2, -0.5)

Pigeon racing has become increasingly popular in parts of China (1) _____ the country's elite and its middle class. Sun Yan, the deputy general-secretary of Beijing Racing Pigeons Association, (2) _____ that at least 100,000 pigeon breeders live in Beijing, and (3) _____ 90,000 of them are registered with Racing Pigeons Associations at (4) _____ levels, to qualify for the games held in the spring and autumn. Competitions can be lucrative for (5) _____ owners, with some prizes amounting to tens of thousands of dollars. Liu said in recent years, pigeon racing has been surging in popularity across China.

Select the most appropriate option for blank No. 2.

- a. said
- b. advised
- c. clarified
- d. told

95. 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 blank. (+2, -0.5)

Pigeon racing has become increasingly popular in parts of China (1) _____ the country's elite and its middle class. Sun Yan, the deputy general-secretary of Beijing Racing Pigeons Association, (2) _____ that at least 100,000 pigeon breeders live in Beijing, and (3) _____ 90,000 of them are registered with Racing Pigeons Associations at (4) _____ levels, to qualify for the games held in the spring and autumn. Competitions can be lucrative for (5) _____ owners, with some prizes

amounting to tens of thousands of dollars. Liu said in recent years, pigeon racing has been surging in popularity across China.

Select the most appropriate option for blank No. 3.

- a. almost
- b. utmost
- c. exact
- d. nearby

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 blank. (+2, -0.5)

Pigeon racing has become increasingly popular in parts of China (1) _____ the country's elite and its middle class. Sun Yan, the deputy general-secretary of Beijing Racing Pigeons Association, (2) _____ that at least 100,000 pigeon breeders live in Beijing, and (3) _____ 90,000 of them are registered with Racing Pigeons Associations at (4) _____ levels, to qualify for the games held in the spring and autumn. Competitions can be lucrative for (5) _____ owners, with some prizes amounting to tens of thousands of dollars. Liu said in recent years, pigeon racing has been surging in popularity across China.

Select the most appropriate option for blank No. 4.

- a. differed
- b. differential
- c. differ
- d. different

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 blank. (+2, -0.5)

Pigeon racing has become increasingly popular in parts of China (1) _____ the country's elite and its middle class. Sun Yan, the deputy general-secretary of Beijing Racing Pigeons Association, (2) _____ that at least 100,000 pigeon breeders live in Beijing, and (3) _____ 90,000 of them are registered with Racing Pigeons Associations at (4) _____ levels, to qualify for the games held in the spring and autumn. Competitions can be lucrative for (5) _____ owners, with some prizes amounting to tens of thousands of dollars. Liu said in recent years, pigeon racing has been surging in popularity across China.

Select the most appropriate option for blank No. 5.

- a. birds
- b. pigeons
- c. animal
- d. bird

98. Select the antonym of the given word. (+2, -0.5)

AGONY

- a. misery
- b. comfort
- c. anxiety
- d. distress

99. Select the word which means the same as the group of words given. **(+2, -0.5)**

an enclosure to keep the birds in

- a.** stable
 - b.** sanctuary
 - c.** apiary
 - d.** aviary
-

100. Select the correct active form of the given sentence. **(+2, -0.5)**

Their children were brought up with great care.

- a.** They brought up their children with great care.
- b.** They had brought up their children with great care.
- c.** Their children brought them up with great care.
- d.** They have been bringing up their children with great care.

Answers

1. Answer: a

Explanation:

Pattern followed is:

1st term is divisible by 2 i.e. 8 is divisible by 2.

2nd term is divisible by 3 i.e. 12 is divisible by 3.

3rd term is divisible by 6 i.e. 24 is divisible by 6.

Similarly

6 is divisible by 2

9 is divisible by 3

18 is divisible by 6

Hence (6, 9, 18) is answer.

2. Answer: a

Explanation:

Pattern followed is:

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

C = 3, A = 1, B = 2.

$$3 \times 1 \times 2 = 6$$

$$B = 2, E = 5, D = 4.$$

$$2 \times 5 \times 4 = 40$$

Similarly

$$HAD = 8 \times 1 \times 4 = 32$$

Hence 32 is answer.

3. Answer: b

Explanation:

Interchanging $\times$ and $+$

$$10 \times 5 \div 10 + 8 - 10 = \frac{10 \times 5}{10} - 2$$

$$5 - 2 \neq 16$$

Interchanging $-$ and $+$

$$10 - 5 \div 10 \times 8 + 10 = 10 - \frac{5 \times 8}{10} + 10$$

$$10 - 4 + 10 = 16$$

Interchanging $\div$ and $\times$

$$10 + 5 \times 10 \div 8 - 10 = 10 + \frac{50}{8} - 10$$

$$\frac{25}{4} \neq 16$$

Interchanging $+$ and $\div$

$$10 \div 5 + 10 \times 8 - 10 = 2 + 80 - 10$$

$$82 - 10 \neq 16$$

Hence we get correct equation by interchanging - and +.

4. Answer: a

Explanation:

Here if we rotate face 2 and take 2 on front side, the common faces with number 2, are in same positions. Hence 6 is opposite to 5 and 2 is opposite to 1.

Hence 3 will be at top when 4 is at bottom.

5. Answer: b

Explanation:

Tapti river flows into westward direction and falls into Arabian sea.

Rest three flow in eastward direction.

Hence Tapti is the odd among them.

6. Answer: a

Explanation:

Pattern followed is:

1st image is related to 3rd image and 2nd image is related to 4th.

Following this pattern 5th image will be related to 3rd image.

If horizontal arrows of 1st image are reversed, and vertical arrows kept same we get 3rd image.

Similarly

If horizontal arrows of 3rd image are reversed, and vertical arrows kept same we get 5th image.



7. Answer: d

Explanation:

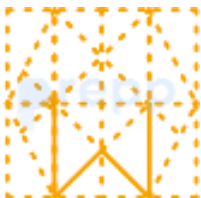
Pattern followed is:



Hence E H G J is the answer.

8. Answer: c

Explanation:



9. Answer: c

Explanation:

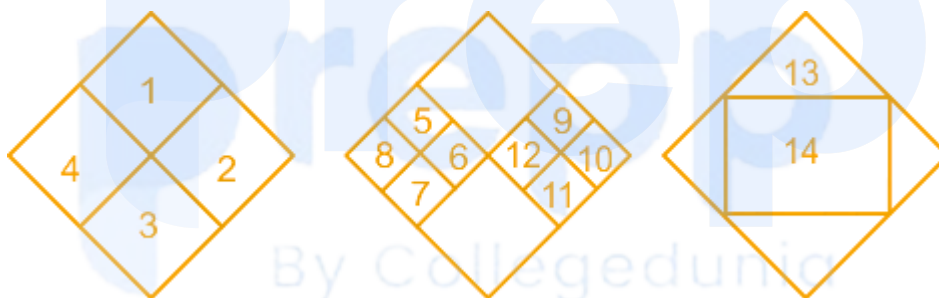
Logical sequence is:

Student – Education – Degree – Interview – Job – Retirement .

Hence, the correct answer is 1, 4, 6, 3, 2, 5.

10. Answer: d

Explanation:



Hence the total number of squares are 14.

11. Answer: a

Explanation:

Pattern followed is:

$$98 - 3 = 95$$

$$95 - 3^2 = 86$$

$$86 - 4 = 82$$

$$82 - 4^2 = 66$$

$$66 - 5 = 61$$

$$61 - 5^2 = 36$$

Hence 61 is the correct answer.

12. Answer: b

Explanation:

Pattern is as follows:

$$5^2 + 12^2 = 13^2$$

Adding square of 1st and 3rd term gives square of 2nd term.

$$15^2 + 13^2 \neq 19^2$$

$$6^2 + 8^2 = 10^2$$

$$11^2 + 9^2 \neq 15^2$$

$$13^2 + 11^2 \neq 17^2$$

Hence (6, 10, 8) is the answer.

13. Answer: a

Explanation:

Apathy and Enthusiasm are Antonyms.

Condemnation means "very strong disapproval"

Reverence means "a feeling of great respect"

Treaty and Friendship are synonyms

Enrolment and Employment are synonyms

War and Attack are also synonyms.

Hence, "Condemnation: Reverence" is the answer.

14. Answer: d

Explanation:

The pattern followed here is:

$$\text{Number} \times [(\text{Number} + 1) \div 2] + \{(\text{Number} + 1) \div 2\} = \text{RHS}$$

$$7 \times [(7 + 1) \div 2] + [(7 + 1) \div 2] = 7 \times 4 + 4 = 32$$

Option 1:

$$12 \times [(12 + 1) \div 2] + [(12 + 1) \div 2] = 12 \times 7.5 + 7.5 \neq 85$$

Option 2:

$$16 \times [(16 + 1) \div 2] + [(16 + 1) \div 2] = 16 \times 8.5 + 8.5 \neq 145$$

Option 3:

$$3 \times [(3 + 1) \div 2] + [(3 + 1) \div 2] = 3 \times 2 + 2 \neq 11$$

Option 4:

$$13 \times [(13 + 1) \div 2] + [(13 + 1) \div 2] = 13 \times 7 + 7 = 98$$

Hence, **13 : 98** is answer.

15. Answer: a

Explanation:

Pattern followed is:

Here repeating term is **b a c d c a**

"b a c **dc** a b **ac** d **ca** b a c **dc** a" is full series.

Hence dacbd is the answer.

16. Answer: c

Explanation:

Pattern followed is:

$R - 1 = Q, Q + 2 = S, S + 1 = T$

$M - 1 = L, L + 2 = N, N + 1 = O$

$F + 1 = G, G + 1 = H, H + 1 = I$

$C - 1 = B, B + 2 = D, D + 1 = E$

Hence, FGHI is different from the rest.

17. Answer: a

Explanation:



18. Answer: d

Explanation:

Ratio of milk and juice in Mixture 1 = 2 : 1

Ratio of milk and juice in Mixture 2 = 4 : 5

Given, equal volumes of the two mixtures are mixed together

According to the question,

Ratio of milk to juice in resulting mixture = $(m_1 + m_2) / (j_1 + j_2)$

$\Rightarrow (2/3 + 4/9) / (1/3 + 5/9)$

$\Rightarrow (10/9) / (8/9)$

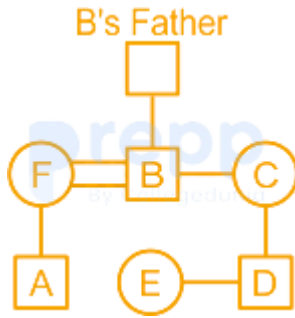
$\Rightarrow 5 : 4$

19. Answer: a

Explanation:

Symbol in Diagram	Meaning
○	Female
□	Male
==	Married Couple
—	Siblings
	Difference of A Generation

Tree diagram:



Hence F is Sister-in-law of C.

20. Answer: c

Explanation:

The least possible Venn diagram is as follows:



Conclusion:

Some animals are crows → False (Possibility but not definitely true).

Some animals are birds → True.

No animal is a crow → False (Possibility but not definitely true).

Thus, I and III forms a complimentary pair.

Hence, Conclusion II and either conclusion I or III follows.

21. Answer: c

Explanation:

The pattern is as follows:

All the given numbers are cube + 1 of any number except option 3.

$$65 = 4^3 + 1 = 64 + 1 = 65$$

$$217 = 6^3 + 1 = 216 + 1 = 217$$

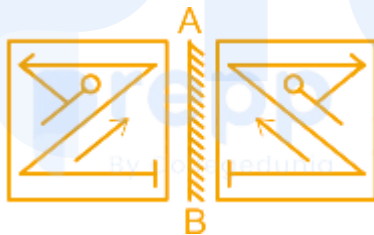
$$338 = 7^3 - 5 = 343 - 5 = 338$$

$$28 = 3^3 + 1 = 27 + 1 = 28$$

Hence, "338" is different from the rest.

22. Answer: d

Explanation:



Hence, the correct answer is option 4.

23. Answer: d

Explanation:

All snakes are reptiles,

And some snakes are Poisonous.



Hence, the correct answer is option 4).

24. Answer: a

Explanation:

Pattern followed is:

C O M P U T E R
X X X X X X X
O C R E P M T U
Similarly,
D A U G H T E R
X X X X X X X
A D R E G U T H

Hence ADREGUTH is answer.

25. Answer: b

Explanation:

Group of people who go to **Cinema** is called **Audience**

Group of people who go to **Church** is called **Congregation**

Hence, Congregation is the correct answer.

26. Answer: b

Explanation:

- Galvanisation is the process of coating Zinc on Iron to prevent rusting.

Method	Uses
Galvanizing	In this method, a thin layer of zinc is applied to prevent corrosion of iron or steel. For example, shining iron nails, pins, etc.
Tinning	In this method, a layer of molten tin is deposited on metals.
Anodization	In this method metals like copper, aluminium is coated with a thin and strong layer of their oxides by means of electrolysis.
Electroplating	In this method, a less reactive metal is coated on a more reactive metal by electrolysis. Silver plated spoons, gold plated ornaments are the examples of electroplating.

27. Answer: b

Explanation:

- Mid-Day Meal** is a school meal (**Hot meal with milk 2 times a week**) program of the Ministry of Human Resource Development (**MHRD**), Government of India to improve the nutritional status of children.
- It is a **Centrally Sponsored Scheme** and the cost is shared 60:40 between the Center and States (It is 90:10 for North Eastern states).
- The Government has also made **Aadhaar mandatory** for students to avail of the Mid-Day Meal Scheme.
- The scheme was launched by former Prime Minister of India, P. V. Narasimha Rao in **1995** .
- Human Resource Development Union Minister is Ramesh Pokhriyal Nishank.**

28. Answer: a

Explanation:

- The First capital of the Chalukya Dynasty was **Aihole** which is clear from the inscriptions found in the caves of Aihole. Later the capital was changed to Badami by Pulakeshin I in 543.
- Aihole Inscription – Pulakesin II of Chalukya dynasty. (*Most Important for the Exam*)

Name of ruler	Dynasty
Pulakesin-I	Considered as the founder of Chalukyas of Badami.
Pulakesin- II	Considered as the greatest ruler among Chalukyas of Badami.
Dantidurga	Considered as the founder of Rashtrakuta dynasty

Some of the contemporaries important for the Exam :-

Dynasty	Capital	Founder	Famous Building
Gurjar Pratihara	Kanauj	Nagabhatta I	Bateshwar temples
Chalukya dynasty	Badami	Pulakesin I	Virupaksha Temple (Deva raya II)
Rashtrakuta dynasty	Malkhed	Dantidurga	Kailash temple Ellora(Krishna)
Chola dynasty	Trichy(urayiur)	Vijayala Chola	Brihadeshwara Temple(Rajaraja chola I)
Pala dynasty	Munger	Gopala	Vikramshila University(Dharmapala)

29. Answer: d

Explanation:

- Nathu La connects Sikkim with Tibet.

Pass	Place
Zoji La,Burzi-La,Imis La pass	Jammu and Kashmir
Shipki La,Bara-La, Cha-La	Himachal Pradesh
Lipulekh	Uttarakhand
Nathu La,Jelep-La	Sikkim
Bomdi-La	Arunachal Pradesh

30. Answer: c

Explanation:

- Ala-ud-din Khilji was the first Muslim ruler whose **empire** covered almost the whole of India up to its extreme south. He fought many battles, conquered Gujarat, Ranthambhor, Chittor, Malwa, and Deccan.
- He was the second and most **powerful** ruler of the Khilji Dynasty. He implemented price control measures for a wide variety of market goods.The

taxation system of Alauddin Khilji lasted for a long period up to the twentieth century.

- He was the first Delhi Sultan to resort price control and rationing among the local poor.

31. Answer: c

Explanation:

The correct answer is Karnataka.

- Bandipur National Park located in Karnataka houses deers, tigers, elephants and other species.

★ Additional Information

The following National parks are most famous in India

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Famous National parks	Location	Prominent animal
Jim Corbett National Park	Uttarkhand	Royal Bengal Tiger
Kaziranga National Park	Assam	One-horned rhinoceroses
Gir National Park	Gujarat	Asiatic lion
Sunderbans National Park	West Bengal	Royal Bengal Tiger
Sariska National Park	Rajasthan	Royal Bengal Tiger
Kanha National Park	Madhya Pradesh	Swamp deer
Ranthambore National Park	Rajasthan	Tiger
<u>Bandipur National Park</u>	<u>Karnataka</u>	Tigers
Tadoba Andhari National Park	Maharashtra	Tigers
Namdapha National Park	Arunachal Pradesh	Leopard, Clouded leopard, tiger
Manas National Park	Assam	Pygmy Hog, water buffalo
Dachigam National Park	Jammu & Kashmir	Kashmir stag
Hemis National Park	Ladhak	Snow leopard
Periyar National Park	Kerala	Elephant

TOP 10 LARGEST NATIONAL PARKS IN INDIA

1		HEMIS NATIONAL PARK 4,400.0 km ² Jammu & Kashmir	6		GURU GHASIDAS (SANJAY) NATIONAL PARK 1,440.7 km ² Chhattisgarh
2		DESERT NATIONAL PARK 3,162.0 km ² Rajasthan	7		GIR FOREST NATIONAL PARK 1,412.0 km ² Gujarat
3		GANGOTRI NATIONAL PARK 2,390.0 km ² Uttarakhand	8		SUNDARBANS NATIONAL PARK 1,330.1 km ² West Bengal
4		NAMDAPHA NATIONAL PARK 1,985.2 km ² Arunachal Pdh.	9		JIM CORBETT NATIONAL PARK 1,318.5 km ² Uttarakhand
5		KHANGCHENDZONGA NATIONAL PARK 1,784.0 km ² Sikkim	10		INDRAVATI NATIONAL PARK 1,258.4 km ² Chhattisgarh

Explanation:

- Chlorofluorocarbons (CFCs) contain **Chlorine**. It reacts with ozone as follows: $\text{Cl} + \text{O}_3 \rightarrow \text{ClO} + \text{O}_2$. The important part is O_3 (ozone) gets converted to O_2 (oxygen). CFCs have been phased out. Ozone blocks harmful UV rays from reaching earth. It is present in the **stratosphere**.
- **Montreal Protocol** → Agreement among member states to protect the Ozone layer.
- Ozone day is celebrated on **September 16th** and 2018 was themed " **Keep Cool and Carry On** ".

33. Answer: a

Explanation:

The correct answer is Option 1 i.e. Information Technology.

- The Quaternary sector is also known as **the knowledge sector**.
- Activities falling under it are known as specialized tertiary activities, which include information technology, mutual funds, hospitals, theatres, brokerage firms, etc.
- Fishery and mining belong to the primary sector, while manufacturing belongs to the secondary sector.

34. Answer: b

Explanation:

- In February 2019, Deepak Singh won a gold medal at the Makran Cup in Chabahar, Iran in boxing.
- Manish Kaushik, Lalit Prasad, Satish Kumar, Sanjeet and Duryodhan Singh Negi finished second to win silver medal.

- India won a total of 6 medals, one gold medal and five silver medals at the Makran Cup Boxing in Chabahar, Iran.
-

35. Answer: b

Explanation:

The correct answer is Calcium.

★ Important Points

- Calcium (Ca) is the most reactive metal amongst these.
 - An element's reactivity decreases while going down the reactivity series.
 - Reactivity of metals:
 - $K > Na > Ca > Mg > Al > Zn > Fe > Pb > Cu$
 - Gold, silver and copper are the least reactive metals and they are also known as noble metals.
-

36. Answer: b

Explanation:

- Rana Dasgupta was awarded the Rabindranath Tagore Literary Prize 2019 for the Novel 'Solo'.
 - The award carries a Tagore statue, a cash prize of \$10,000, and a certificate for contribution to literature.
 - Yohei Sasakawa, Goodwill Ambassador of WHO for Leprosy Elimination was awarded the Rabindranath Tagore Literary Prize for social achievement.
-

37. Answer: c

Explanation:

- In February 2019, India won one gold medal and five silver medals at the Makran Cup Boxing in Chabahar, Iran.
- Deepak Singh won a gold medal at the Makran Cup in Chabahar, Iran in boxing.
- Manish Kaushik, Lalit Prasad, Satish Kumar, Sanjeet and Duryodhan Singh Negi finished second to win the silver medal.

38. Answer: d

Explanation:

- Au (gold) is the most ductile metal.
- A ductile substance is easily pulled or stretched into a thin wire without breaking.
- Gold has an enormous ability to get stretched.

Metals	Symbol	Atomic Number
Silver	Ag	47
Gold	Au	79
Carbon	C	6

39. Answer: a

Explanation:

Nandna block print practiced in the Tarapur village of Neemuch district in **Madhya Pradesh** . It is practiced by the Bhil tribe.

Block Print Name	Location	Specialty
Nandna	Madhya Pradesh	Graceful yet aligned arrangements of motifs on the fabric.
Pethapur	Gujarat	Use of teak wood to make the blocks. Fields and outlines of the motifs match flawlessly and with micro accuracy.
Sanganeri	Rajasthan	Motifs are mostly floral based. Fine lines and intricate detailing.

40. Answer: a

Explanation:

The correct answer is Qutub-ud-din Aibak.

- Qutubuddin Aibak became the ruler of India after the death of Mohammad Ghori in the year 1206 AD.
- He founded the Slave Dynasty in India and was also known as Lakh Baksh because of his generosity.
- He died in the year 1210 AD while playing Chaugan or Polo.

41. Answer: a

Explanation:

The Indian constitution under **Article 19** provides for free movement throughout the territory of India.

Fundamental Right	Explanation
Article 14	Equality of Law, Equal protection of the law.
Article 15	Prohibition of discrimination on grounds of religion, race, caste, sex or place of birth.
Article 18	Abolishment of Titles except for educational and military.
Article 19	Protection of rights to freedom of speech and expression, Peaceful assembly and association, movement, residence , and profession.
Article 21	Protection of life and personal liberty.
Article 24	Prohibition of children working in factories.

- During a National emergency (Article 352) all fundamental rights except Article 20 and 21. Article 20: Ex post facto law, double Jeopardy, self-incrimination.

42. Answer: d

Explanation:

National Highway	Connecting	Passes through how many states	Length
NH 44	Srinagar(J&K) to Kanyakumari (TN)	11 :-Jammu & Kashmir, Punjab, Haryana, Delhi, Uttar Pradesh, Madhya Pradesh, Maharashtra, Telangana, Andhra Pradesh, Karnataka, and Tamil Nadu.	3,745 km
NH 27	Porbandar(GJ) to Silchar(AS)	7 :-Gujarat, Rajasthan, Madhya Pradesh, Uttar Pradesh, Bihar, West Bengal, and Assam.	3,507 km
NH 48	New Delhi to Chennai(TN)	7 :-Delhi, Haryana, Rajasthan, Gujarat, Maharashtra, Karnataka, and Tamil Nadu.	2,807 km
NH 52	Sangrur(PB) to Ankola city(KA)	6 :Punjab, Haryana, Rajasthan, Madhya Pradesh, Maharashtra, and Karnataka	2,317 km
NH 30	Sitarganj (UK)to Ibrahimpattanam(AP)	6 :-Uttarakhand, Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Andhra Pradesh, and Telangana.	2,040 km
NH 53	Hajira(GJ)TO Paradip Port(OD)	4 :-Gujarat, Maharashtra, Chhattisgarh, and Odisha.	1,781 km

43. Answer: d

Explanation:

The correct answer is Andre Marie Ampère.

Ampere had come with the theory of Electromagnetism and also its relation with light.

Electromagnetism:- Phenomenon where the flow of electric current in a conductor produced a magnetic field.

★ Additional Information

INVENTOR	INVENTION
Michael Faraday	Electric motor, dynamo.
<u>Andre Marie Ampère</u>	Electromagnetism, Ampere's law.
Hans Christian Oersted	The electric current in a wire can deflect a magnetized compass needle.
James Clerk Maxwell	Electromagnetic radiation, the relation between light and electromagnetism.
Max Planck	Quantum theory
Alexandro Volta	Electric battery
Georg Ohm	Ohm's law ($V \propto R$) OR $V=IR$

Ampere's law → The law states that the mutual action of two lengths of current-carrying wire is proportional to their lengths and to the intensities of their currents.

Quantum theory → Light consists of tiny particles which have wavelike properties. Light is composed of particles called photons.

44. Answer: d

Explanation:

International Day of Forests 2019 observed on 21st March themed "Forests and Education".

International day	Date	Theme(2019)
World Wildlife Day	3 March	Life Below Water: For people and planet
International Day of Forests	21 March	Forests and Education
World Water Day	22 March	Leaving no one behind
World Environment Day	5 June	Air pollution
World Oceans Day	8 June	Gender and Oceans

45. Answer: c

Explanation:

- NALSA(National Legal Services Authority) conducts **Lok Adalats** with statutory backing from the Legal Services Authority Act 1987. The Legal Services Act stipulates free legal aid should be provided to the weaker sections of the society.
- Arbitration and Conciliation Act: Consolidate and amend the law relating to domestic arbitration, international commercial arbitration.

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46. Answer: a

Explanation:

Bagh in Madhya Pradesh has murals depicting the life of Buddha and other religious stories.

Mural are those painted directly on rock or wall and Fresco is painted on a plaster applied on rocks or walls

The following are a few ancient Indian caves and locations.

Ancient India Caves	Location
Ajanta Ellora	Maharashtra
Bhimbetka	Madhya Pradesh
<u>Bagh</u>	<u>Madhya Pradesh</u>
Badami Caves	Karnataka
Elephanta	Maharashtra
Udayagir and Khandhgiri	Odisha(Built by Mahameghavahana dynasty- Famous King- King Kharavela)
Amarnath	Jammu & Kashmir
Udayagiri Caves	Vidisha, Madhya Pradesh(Built by Gupta dynasty)

47. Answer: d

Explanation:

- **Kailash Satyarthi** won the Nobel peace price in 2014.
- He shared it with Malala Yousafzai.
- He won the award for his efforts towards improving education and the life of children.
- He started Bachpan Bachao Andolan.

Nobel Foundation gives away prizes for the following fields:-

Nobel prize	Personalities(the year they won)
Physics	Subramanian Chandrashekhhar(1983), Chandrashekhhar Venkataraman(1930)*first ever in physics from India.
Chemistry	Venkatraman Ramakrishnan(2009)*Indian origin
Medicine	Hargobind Khorana(1968)
Peace	Mother Teresa(1979)
Economics	Amartya Sen(1998)
Literature	Rabindranath Tagore(1913)*first ever across all fields from India

48. Answer: a

Explanation:

World Water Day 2019 was observed on 22nd March with the theme "Leaving no one behind"

International day	Date	Theme(2019)
World Wildlife Day	3 March	Life Below Water: For people and planet
International Day of Forests	21 March	Forests and Education
World Water Day	22 March	Leaving no one behind
World Environment Day	5 June	Air pollution
World Oceans Day	8 June	Gender and Oceans

49. Answer: b

Explanation:

ISRO Chairman	Duration	Exceptional achievement
Radhakrishnan	2009-2014	Maiden land on mars by the rover, Padma Bhushan(2014)
Kiran Kumar	2015-2018	GAGAN location service implementation, Padma Shri(2014)
K Sivan	2019-Present	Hypersonic Wind Tunnel Facility, Electrical propulsion

- Nandan Nilekani: Co-founder of Infosys, Chairman of UIDAI.
- Sundar Pichai: CEO of Google LLC.

50. Answer: d

Explanation:

- Slave dynasty was founded by Qutubuddin Aibak. He is the first Muslim ruler among the given options. He became the ruler of India after the death of Mohammad Ghori in the year 1206 AD.
- The very first Muslim ruler of India is Mohammad Ghori who invaded India with the objective of ruling the country. He laid the foundation for Muslim Rule in India and is also known as the 'founder of Muslim Rule' in the country.
- Though he was defeated in the First Battle of Tarain in 1191, he defeated Prithviraj Chauhan in the Second Battle of Tarain in the year 1192.
- Later on, he defeated other rulers of various provinces in India to expand his kingdom.
- Mohammad Ghori passed away in the year 1206 after being attacked in the Dhamyak District of Jhelum (Now in Pakistan).

51. Answer: d

Explanation:

Total production of type D cars in five years = $46 + 50 + 54 + 68 + 67 = 285$

⇒ Average production of type D cars in five years = $285/5 = 57$

Production of type E cars in 2018 = 70

∴ Required percentage = $[(70 - 57)/70] \times 100 = 18.6$ (Approx)

52. Answer: b

Explanation:

Total production of cars in 2018 = $38 + 40 + 54 + 68 + 70 = 270$ thousand

Production of cars C in 2018 = 54 thousand

⇒ 270 thousand represents = 360°

∴ 54 thousand will represent = $[360^\circ/270] \times 54 = 72^\circ$

53. Answer: a

Explanation:

Production of type B cars of 5 years = $54 + 45 + 47 + 50 + 40 = 236$

Production of cars type A, B and D in 2017 = $43 + 50 + 67 = 160$

∴ Required percentage = $[(236 - 160)/160] \times 100 = 47.5\%$

54. Answer: b

Explanation:

Production of type C cars in 2015 and type D in 2017 = $53 + 67 = 120$ thousands

Production of type B cars in 2016 and type A in 2017 = $47 + 43 = 90$ thousands

$\therefore$ Required ratio = $120 : 90 = 4 : 3$

55. Answer: c

Explanation:

If A and B after crossing each other takes x and y hours, respectively, to reach their destinations then the ratio of their speed will be

$$(\text{Speed of A}) / (\text{speed of B}) = \sqrt{(y/x)}$$

According to the question

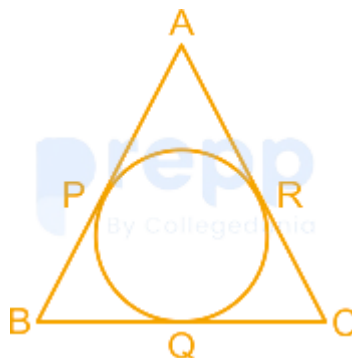
$$\text{Speed of A}/16.8 = \sqrt{[8 \div (49/8)]}$$

$$\Rightarrow \text{Speed of A}/16.8 = \sqrt{([8 \times 8]/49)} = 8/7$$

$$\Rightarrow \text{Speed of A} = 8/7 \times 16.8 = 19.2 \text{ km/hr}$$

56. Answer: c

Explanation:



As we know, $AR = AP$, $BP = BQ$ and $QC = CR$

$$\Rightarrow AR = AP = 5\text{cm and } CR = QC = 6\text{cm}$$

$$\Rightarrow AB = AP + BP$$

$$\Rightarrow BP = 12 - 5 = 7$$

$$\Rightarrow BP = BQ = 7\text{cm}$$

$$\therefore \text{Perimeter of triangle} = AR + RC + QC + QB + BP + AP = 5 + 6 + 6 + 7 + 7 + 5 = 36 \text{ cm}$$

57. Answer: c

Explanation:

$$\frac{\sin\theta - \cos\theta + 1}{\sin\theta + \cos\theta - 1}$$

Short trick :

$$\text{Put } \theta = 45^\circ$$

$$\Rightarrow (\sin 45^\circ - \cos 45^\circ + 1) / (\sin 45^\circ + \cos 45^\circ - 1)$$

$$\Rightarrow \frac{\frac{1}{\sqrt{2}} - \frac{1}{\sqrt{2}} + 1}{\frac{1}{\sqrt{2}} + \frac{1}{\sqrt{2}} - 1}$$

$$\Rightarrow 1/(\sqrt{2} - 1)$$

$$\Rightarrow \sqrt{2} + 1$$

Go through option 3

$$\Rightarrow \sec 45^\circ + \tan 45^\circ$$

$$\Rightarrow \sqrt{2} + 1 \text{ (Satisfied)}$$

$$\therefore \frac{\sin\theta - \cos\theta + 1}{\sin\theta + \cos\theta - 1} = \sec\theta + \tan\theta$$

58. Answer: d

Explanation:

$$(5 + 3 \div 5 \times 5) \div (3 \div 3 \text{ of } 6) \text{ of } (4 \times 4 \div 4 \text{ of } 4 + 4 \div 4 \times 4)$$

$$\Rightarrow (5 + 3/5 \times 5) \div (3 \div 18) \text{ of } (4 \times 4 \div 16 + 1 \times 4)$$

$$\Rightarrow (5 + 3) \div 1/6 \text{ of } (1 + 4)$$

$$\Rightarrow 8 \div (1/6 \times 5)$$

$$\Rightarrow 8 \div 5/6$$

$$\Rightarrow 8 \times (6/5)$$

$$\Rightarrow 9\frac{3}{5}$$

59. Answer: b

Explanation:

Short trick :

$$\sqrt{(\sec^2 \theta + \operatorname{cosec}^2 \theta)} \times \sqrt{(\tan^2 \theta - \sin^2 \theta)}$$

$$\text{Put } \theta = 45^\circ$$

$$\Rightarrow \sqrt{(\sec^2 45^\circ + \operatorname{cosec}^2 45^\circ)} \times \sqrt{(\tan^2 45^\circ - \sin^2 45^\circ)}$$

$$\Rightarrow \sqrt{(2 + 2)} \times \sqrt{[1 - (1/2)]}$$

$$\Rightarrow 2 \times [1/\sqrt{2}]$$

$$\Rightarrow \sqrt{2}$$

Going through option 2

$$\sin \theta \sec^2 \theta = \sin 45^\circ \cdot \sec^2 45^\circ = 1/\sqrt{2} \times (\sqrt{2})^2 = \sqrt{2}$$

Detailed solution :

$$\sqrt{(\sec^2 \theta + \operatorname{cosec}^2 \theta)} \times \sqrt{(\tan^2 \theta - \sin^2 \theta)}$$

$$\Rightarrow \sqrt{(1/\cos^2 \theta + 1/\sin^2 \theta)} \times \sqrt{(\sin^2 \theta / \cos^2 \theta - \sin^2 \theta)}$$

$$\Rightarrow \sqrt{[(\sin^2 \theta + \cos^2 \theta) / (\sin^2 \theta \cdot \cos^2 \theta)]} \times \sqrt{[\sin^2 \theta \cdot (1/\cos^2 \theta - 1)]}$$

$$\Rightarrow \sqrt{[1 / (\sin^2 \theta \cdot \cos^2 \theta)]} \times \sqrt{[\sin^2 \theta \cdot (1 - \cos^2 \theta) / \cos^2 \theta]}$$

$$\Rightarrow 1 / (\sin \theta \cdot \cos \theta) \times \sin^2 \theta / \cos \theta$$

$$\Rightarrow \sin \theta \cdot \sec^2 \theta$$

60. Answer: a

Explanation:

As we know, the difference between the loss percentage and the gain percentage = $10.5 - (-8)$

According to the question

$$\Rightarrow x \times (18.5/100) = 92.50$$

$$\Rightarrow x = \text{Rs. } 500$$

$$\therefore \text{Required selling price} = 500 \times [112/100] = \text{Rs. } 560$$

61. Answer: a

Explanation:

If 8 digit number $2074x4y2$ is divisible by 88, the number will also be divisible by 8 and 11 both.

A number will be divisible by 8 if the last three digits of a number is divisible by 8.

The divisibility rule of 11 is that you must subtract and then add the digits in an alternating pattern from left to right. If your answer is 0 or 11 then it is divisible by 11.

$\Rightarrow 4y2$ is divisible by 8 if $y = 3$ or 7

If $y = 3$, then

$\Rightarrow 2074x432$ will be divisible by 11 if $x = 9$

If $y = 7$, then

$\Rightarrow 2074x472$ is divisible by 11 if $x = 5$

Now we can say, if $y = 3$ then $x = 9$ and if $y = 7$, then $x = 5$

$\Rightarrow (4x + 3y)$

$\Rightarrow (4 \times 9 + 3 \times 3) = 36 + 9 = 45$

$\Rightarrow (4 \times 5 + 3 \times 7) = 20 + 21 = 41$

62. Answer: d

Explanation:

$$\Rightarrow \sqrt{(x^4 + y^4 - 2x^2y^2)}$$

As we know,

$$\Rightarrow x^2 + y^2 - 2xy = (x - y)^2$$

$$\Rightarrow \sqrt{(x^2 - y^2)^2} = x^2 - y^2 = (x - y)(x + y)$$

$$\Rightarrow \left(a + \frac{1}{a} - a + \frac{1}{a}\right) \left(a + \frac{1}{a} + a - \frac{1}{a}\right)$$

$$\Rightarrow \left[\frac{2}{a}\right] \times 2a$$

$$\Rightarrow 4$$

63. Answer: b

Explanation:

Calculation:

If x is subtracted from each of 21, 22, 60 and 64, then all number will be in proportion

According to the question

$$(21 - x) / (22 - x) = (60 - x) / (64 - x)$$

By Dividendo and Componendo

$$\Rightarrow (21 - x + 22 - x) / (21 - x - 22 + x) = (60 - x + 64 - x) / (60 - x - 64 + x)$$

$$\Rightarrow (43 - 2x) / (-1) = (124 - 2x) / (-4)$$

$$\Rightarrow 172 - 8x = 124 - 2x$$

$$\Rightarrow 6x = 48$$

$$\Rightarrow x = 8$$

$$\therefore \text{Required mean proportional} = \sqrt{[(8 + 1) (7 \times 8 + 8)]} = \sqrt{(9 \times 64)} = 24$$

64. Answer: c

Explanation:

Pipe A can alone fill a tank in = 1 hrs

Pipe B alone can fill a tank in = 2 hrs

Pipe C alone can empty a tank in = 1 hrs 15 min = $5/4$ hr.

Tank filled by A and C in 1 hr = $(1/1) - (4/5) = 1/5$

Tank filled by A and C in 2 hr = $2 \times \frac{1}{5} = \frac{2}{5}$

Since one hour work of C is greater than B so tank will be emptied when both work together.

Tank emptied by B and C in 1 hr = $(\frac{4}{5}) - (\frac{1}{2}) = \frac{3}{10}$

⇒ Time taken by B and C to emptied the tank = $(\frac{2}{5}) / (\frac{3}{10}) = \frac{4}{3}$ hr

= 1 hr 20 min

∴ Required time = 9 AM + 2 hrs + 1hrs 20 min = 12 : 20 p. m.



Given:

Pipe A can alone fill a tank in = 1 hrs

Pipe B alone can fill a tank in = 2 hrs

Pipe C alone can empty a tank in = 1 hrs 15 min = $\frac{5}{4}$ hr.

Concept used:

Total capacity = LCM

LCM of $(\frac{a}{b}, \frac{c}{d})$ = LCM of (a,c) / HCF of (b,d)

Efficiency = $(\text{Total capacity}) / (\text{Total time})$

Efficiency of inlet pipe is positive

Efficiency of outlet pipe is negative

Calculations:

Total capacity = LCM $(1, 2, \frac{5}{4})$ = $10/1 = 10$

Efficiency of A = $10/1 = 10$

$$\text{Efficiency of B} = 10/2 = 5$$

$$\text{Efficiency of C} = 10/5/4 = -8$$

$$\text{Total efficiency of A and C} = 10 - 8 = 2$$

$$\text{Tank filled by A and C in 2 hours} = 2 \times 2 = 4$$

$$\text{Total efficiency of B and C} = 5 - 8 = -3$$

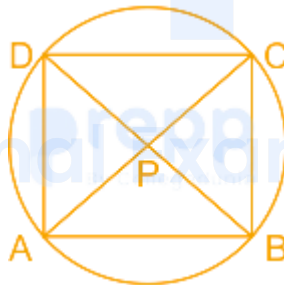
$$\text{Time taken by B and C to empty the 4 unit (Here only 4 units is filled by A and C)} = 4/3 = 1 \text{ hour } 20 \text{ min}$$

$$\text{Required time} = 9 \text{ AM} + 2 \text{ hrs} + 1 \text{ hrs } 20 \text{ min} = 12 : 20 \text{ p.m}$$

∴ The required time is 12 : 20 P.M

65. Answer: a

Explanation:



In $\triangle ABC$,

If $AB = BC$

then $\angle BAC = \angle BCA = 30^\circ$

$$\Rightarrow \angle BAC + \angle BCA + \angle ABC = 180^\circ$$

$$\Rightarrow \angle ABC = 180^\circ - 30^\circ - 30^\circ = 120^\circ$$

$$\Rightarrow \angle ABC = \angle ABD + \angle DBC$$

$$\Rightarrow 120^\circ = \angle ABD + \angle DBC$$

$$\Rightarrow \angle ABD = 50^\circ$$

As we know,

$\Rightarrow \angle ABD = \angle ACD = 50^\circ$ (angles drawn from the same base to the circumference of circle)

and we can write $\angle ACD = \angle PCD$

$$\text{or } \angle PCD = 50^\circ$$

66. Answer: a

Explanation:

Average of 13 numbers = 80

$$\Rightarrow \text{Sum of 13 numbers} = 80 \times 13 = 1040$$

Average of the first 5 numbers = 74.5

$$\Rightarrow \text{Sum of the first 5 numbers} = 74.5 \times 5 = 372.5$$

Average of next five numbers (6^{th} to 10^{th}) = 82.5

$$\Rightarrow \text{Sum of the next five numbers } (6^{\text{th}} \text{ to } 10^{\text{th}}) = 82.5 \times 5 = 412.5$$

$$\Rightarrow \text{Sum of the last 3 numbers} = 1040 - 372.5 - 412.5 = 255$$

Let the 12^{th} number be x .

$$11^{\text{th}} \text{ numbers} = x + 6 \text{ and } 13^{\text{th}} \text{ number} = x + 6$$

According to the question

$$\Rightarrow x + 6 + x + x + 6 = 255$$

$$\Rightarrow x = 81$$

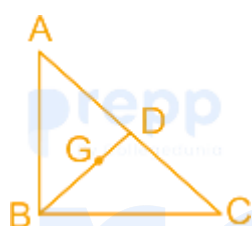
$$\Rightarrow 11^{\text{th}} \text{ number} = x + 6 = 81 + 6 = 87$$

$$\Rightarrow x + 6 = 81 + 6 = 87$$

$$\therefore \text{Average of } 11^{\text{th}} \text{ and } 13^{\text{th}} \text{ number} = (87 + 87)/2 = 87$$

67. Answer: c

Explanation:



and $AC = 25 \text{ cm}$

$$\Rightarrow 25^2 = 7^2 + 24^2$$

Now we can say $\triangle ABC$ right angle triangle 90° at B.

Point G is on BD

As we know, BD is circum-radius

$$\Rightarrow \text{circum-radius} = \triangle ABC = (\text{Hypotenuse})/2$$

$$= 25/2 \text{ cm}$$

$$\Rightarrow BD = BG + GD$$

$$\Rightarrow BG : GD = 2 : 1$$

$$\Rightarrow BG = (25/2) \times (2/3) = 25/3 \text{ cm}$$

$$\therefore BG = 8\frac{1}{3} \text{ cm}$$

68. Answer: a

Explanation:

$P = \text{Rs. } 15,000, r = 16\%, T = 2 \text{ years}$

Compound interest only for 2nd year

$$\Rightarrow 15000 \times (16/100) = 2400$$

$$\Rightarrow 2400 \times (16/100) = 384$$

Compound interest only for 2nd year = $2400 + 384 = \text{Rs. } 2784$

Compound interest only for 3rd year

$$\Rightarrow 15000 \times (16/100) = 2400 \times 1 = 2400$$

$$\Rightarrow 2400 \times (16/100) = 384 \times 2 = 768$$

$$\Rightarrow 384 \times (16/100) = 61.44$$

Compound interest of 3 years = $2400 + 768 + 61.44 = 3,229.44$

$\therefore$ Required difference = $3,229.44 - 2,784 = \text{Rs. } 445.44$

69. Answer: a

Explanation:

As we know, $(a^3 - b^3) = (a - b)(a^2 + b^2 + ab)$

$$\Rightarrow (8x^3 - 27y^3) \div (2x - 3y)$$

$$\Rightarrow [(2x)^3 - (3y)^3] \div (2x - 3y)$$

$$\Rightarrow [(2x - 3y) \{(2x)^2 + (3y)^2 + 2x \times 3y\}] \div (2x - 3y)$$

$$\Rightarrow [4x^2 + 9y^2 + 6xy]$$

Comparing with $(Ax^2 + Bxy + Cy^2)$

$$\Rightarrow A = 4, B = 6 \text{ and } C = 9$$

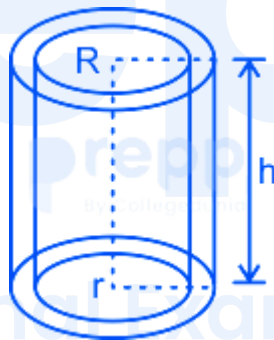
$$\Rightarrow (2A + B - C) = 2 \times 4 + 6 - 9 = 5$$

70. Answer: d

Explanation:

Given:

Length of the cylinder (h) = 1.4 m = 140 cm, External radius of cylinder, $R = 9$ cm and internal radius of cylinder = r cm



Concept:

Volume of solid cylinder, $V_s = \pi R^2 h$

Volume of hollow cylinder, $V_h = \pi(R^2 - r^2)h$

Calculation:

Volume of hollow cylinder = $V_h = \pi(R^2 - r^2)h$

$$\Rightarrow 7480 = \frac{22}{7} \times (9^2 - r^2) \times 140$$

$$\Rightarrow (81 - r^2) = 17$$

$$\Rightarrow r = 8 \text{ cm}$$

$$\therefore \text{Thickness of the cylindrical pipe} = R - r = 9 - 8 = 1 \text{ cm}$$

71. Answer: c

Explanation:



As we know,

$$\Rightarrow AP/PC = PB/PD$$

$$\Rightarrow (3x - 1) / (5x - 3) = (2x + 1) / (6x - 5)$$

$$\Rightarrow (3x - 1)(6x - 5) = (2x + 1)(5x - 3)$$

$$\Rightarrow 18x^2 - 21x + 5 = 10x^2 - x - 3$$

$$\Rightarrow 2x^2 - 5x + 2 = 0$$

$$\Rightarrow (x - 2)(2x - 1) = 0$$

$$\Rightarrow x = 2 \text{ and } x = 1/2$$

Taking $x = 2$

$$\Rightarrow BD = PD + BP = (6x - 5) + (2x + 1) = 6 \times 2 - 5 + 2 \times 2 + 1 = 12 \text{ cm}$$

72. Answer: a

Explanation:

Given:

$$ab + bc + ca = 8 \text{ and } a^2 + b^2 + c^2 = 20$$

Formula used:

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

Calculation:

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

$$\Rightarrow (a + b + c)^2 = 20 + 2 \times 8 = 36$$

$$\Rightarrow (a + b + c) = 6$$

Now,

$$1/2 \times (a + b + c)[(a - b)^2 + (b - c)^2 + (c - a)^2]$$

$$\Rightarrow 1/2(a + b + c)(a^2 + b^2 - 2ab + b^2 + c^2 - 2bc + c^2 + a^2 - 2ac)$$

$$\Rightarrow 1/2(a + b + c)[2(a^2 + b^2 + c^2) - 2(ab + bc + ac)]$$

Now substituting the values,

$$\Rightarrow (a + b + c)[(a^2 + b^2 + c^2) - (ab + bc + ac)]$$

$$\Rightarrow 6(20 - 8)$$

$$\Rightarrow 6 \times 12 = 72$$

$\therefore$ The required answer is 72.

73. Answer: a

Explanation:

Let the cost price of an article be 100x.

$$\text{MP of an article} = 100x \times [140/100] = 140x$$

$$\text{SP of an article} = 140x \times [75/100] = 105x$$

$$\therefore \text{Required profit percentage} = [(105x - 100x)]/100x \times 100 = 5\%$$

74. Answer: d

Explanation:

Let the income of B be $100x$.

$$\text{Income of A} = 100x \times [150/100] = 150x$$

$$\text{Sum of their income} = 100x + 150x = 250x$$

$$\text{New income of A} = 150x \times [140/100] = 210x$$

$$\text{New income of B} = 100x \times [190/100] = 190x$$

$$\text{Sum of their New income} = 210x + 190x = 400x$$

$$\therefore \text{Required percentage} = [(400x - 250x)/250x] \times 100 = 60\%$$

75. Answer: b

Explanation:

$$12\cot^2\theta - 31\operatorname{cosec}\theta + 32 = 0$$

$$\Rightarrow 12(\operatorname{cosec}^2\theta - 1) - 31\operatorname{cosec}\theta + 32 = 0$$

$$\Rightarrow 12\operatorname{cosec}^2\theta - 31\operatorname{cosec}\theta + 20 = 0$$

$$\Rightarrow 12\operatorname{cosec}^2\theta - 16\operatorname{cosec}\theta - 15\operatorname{cosec}\theta + 20 = 0$$

$$\Rightarrow 4\operatorname{cosec}\theta(3\operatorname{cosec}\theta - 4) - 5(3\operatorname{cosec}\theta - 4) = 0$$

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$$\Rightarrow (4\operatorname{cosec}\theta - 5) (3\operatorname{cosec}\theta - 4) = 0$$

$$\Rightarrow \operatorname{cosec}\theta = 5/4 \text{ or } 4/3$$

$$\Rightarrow \sin\theta = 4/5 \text{ or } 3/4$$

$$\text{We know that } \cos^2\theta = 1 - \sin^2\theta$$

$$\Rightarrow \cos^2\theta = 1 - (4/5)^2 = 9/25 \text{ or } 1 - (3/4)^2 = 7/16$$

$$\Rightarrow \cos\theta = 3/5 \text{ or } \sqrt{7}/4$$

$$\Rightarrow \tan\theta = \sin\theta/\cos\theta$$

$$\Rightarrow \tan\theta = (4/5) / (3/5) \text{ or } (3/4) / (\sqrt{7}/4)$$

$$\Rightarrow \tan\theta = 4/3 \text{ or } 3\sqrt{7}/7$$

76. Answer: b

Explanation:

The correct answer is option 2.

The correct spelling of the word in option 2 is **experience**.

All the other words in options 1, 3 and 4 are **correctly spelt**.

77. Answer: a

Explanation:

The correct answer is option 1.

The burning of the effigy of Ravana on Dussehra **symbolizes** the burning of all evils.

Symbolizes means **be a symbol of**.

It is clear that **symbolizes** is the correct word as the sentence means that the burning of the effigy of Ravana on Dussehra is a symbol of burning evils.

Intensifies means **to become or make more intense**.

Epitomizes means **be a perfect example of**.

Personifies means **represent (a quality or concept) by a figure in human form**.

So, options **2,3 and 4** are incorrect.

78. Answer: a

Explanation:

The correct answer is option 1.

The first statement should be **A**, i.e. "*Mango, the so-called 'king of fruits', is something of a national obsession in India.*" This is because it gives a suitable introduction about what is going to be talked about in the following statements.

After A it should be **D**, i.e. "*2017 proved to be a very good year for mango lovers.*" This is because **B and C** seem to be in continuation with another statement.

After D it should be **B** as it gives the reason as to why 2017 was a good year for mango lovers.

The correct order is **ADBC**.

So, options **2,3 and 4** are incorrect.

79. Answer: c

Explanation:

The correct answer is victory

★ Key Points

- **Triumph** means a great victory or achievement.
For eg; *This garden was built to celebrate the king's triumphs.*
- **Victory** means an act of defeating an enemy or opponent in a battle, game, or other competition.
For eg; *The victory in elections was most important to him.*
- It is clear that triumph and victory are synonyms.

★ Additional Information

- **Peace** means freedom from disturbance; tranquillity.
- **Attack** means take aggressive military action against (a place or enemy forces) with weapons or armed force.
- **Fight** means take part in a violent struggle involving the exchange of physical blows or the use of weapons.
- So, options 1,2, and 4 are incorrect.

80. Answer: a

Explanation:

The correct answer is option 1.

The first sentence should be **B** i.e "India is suffering from the worst water crisis, with one billion people living in water scarcity." This is because out of all the other sentences **B** gives an account of **what is being talked about in the following sentences**.

After **B** it should be **A** i.e " Around 600 million of them live in areas of high to extreme water stress." This is because in **B** it was mentioned how many people lived in water scarcity and among these how many live in areas of high to the extreme water crisis is mentioned in **A**.

After **A**, it should be **D** as it gives the reason for the problem mentioned in the preceding statements.

The correct order is BADC.

So, options 2,3 and 4 are incorrect.

81. Answer: c

Explanation:

The correct answer is it will improve.

★ Key Points

- The given sentence is a first conditional sentence . It is used to talk about things that might happen in the future .
- The first conditional describes a particular situation .
- The first conditional has the present simple after 'if' , then the future simple in the other clause .
- The format is: if + present simple, ... will + infinitive .
- **Examples:**
 - *If it rains, I won't go to the park.*
 - *If I study today, I'll go to the party tonight.*

Thus, the correct sentence is: *If you listen to English news, it will improve your English.*

82. Answer: c

Explanation:

The correct answer is Let the outer gate be locked at night

★ Key Points

- The given sentence is an imperative sentence in active voice.

- Sentences that express request, order, advice, suggestion, prohibition, etc., are called imperative sentences.
- The imperative sentence in the passive voice has the following structure:
 - Let + object + be + past participle
- When the active voice begins with do not, the passive voice has the following structure:
 - Let not + object + be + past participle
- Example:
Active: Bring it home.
Passive: Let it be brought home.
- Thus, the passive voice for the given sentence is: *Let the outer gate be locked at night.*

83. Answer: b

Explanation:

The correct answer is option 2.

Give someone the cold shoulder means to **ignore someone** or treat someone in an unfriendly way.

So, options 1, 3 and 4 are incorrect.

84. Answer: c

Explanation:

The correct answer is calm down

★ Key Points

- Pull yourself together means to become calm after being angry or upset.
- For eg; You need to stop crying and **pull yourself together**.

- So, options 1,2, and 4 are incorrect.
-

85. Answer: b

Explanation:

The correct answer is option 2.

Slab means a large, thick, flat piece of stone or concrete, typically square or rectangular in shape.

Epitaph means a phrase or form of words written in memory of a person who has died, especially as an inscription on a tombstone.

So, clearly **epitaph** is the correct word .

Pillar means a tall vertical structure of stone, wood, or metal, used as a support for a building, or as an ornament or monument.

Basilica means a large oblong hall or building with double colonnades and a semicircular apse, used in ancient Rome as a law court or for public assemblies.

So, options 1, 3 and 4 are incorrect.

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86. Answer: a

Explanation:

The correct answer is option 1.

Eminent means famous and respected within a particular sphere.

*For eg; She was one of the most **eminent** personalities.*

Inconspicuous means not clearly visible or attracting attention.

For eg; He had an *inconspicuous* behaviour.

It is clear that **eminent** and **inconspicuous** are antonyms.

Exalted means **at a high or powerful level**.

Impressive means **evoking admiration through size, quality, or skill; grand, imposing, or awesome**.

Distinguished means **very successful, authoritative, and commanding great respect**.

So, options **2,3 and 4** are **incorrect**.

87. Answer: b

Explanation:

The correct answer is option 2.

★ **Key Points**

- The correct spelling of the word in **option 2** is **contemporary**.
Contemporary things are modern and relate to the present time.
 - **Example:** *Perhaps he should have a more updated look, a more contemporary style.*
- **Controversial:** If you describe something or someone as **controversial**, you mean that they are the subject of intense public argument, disagreement, or disapproval.
 - **Example:** *Immigration is a controversial issue in many countries.*
- **Conquer:** If one country or group of people **conquers** another, they take complete control of their land.
 - **Example:** *During 1936, Mussolini conquered Abyssinia.*
- **Cooperation:** the action or process of working together to the same end.
 - **Example:** *They worked in close cooperation with the British Tourist Authority*

88. Answer: a

Explanation:

The correct answer is option 1.

I try to solve this problem at least for two hours.

In the given sentence, the subject is performing a task in the present (present continuous tense will be used) which was started at some point in the past i.e for two hours. So, we will use the present perfect continuous tense in this sentence. For the present perfect tense, we use **have been** and for continuous we use **trying**. So, the correct sentence will be-

I have been trying to solve this problem at least for two hours.

So, options 2,3 and 4 are incorrect.

89. Answer: c

Explanation:

The correct answer is inderasable

★ Key Points

- **Indelible** means making marks that cannot be removed.
- For eg; I need an **indelible** marker.
- Inerasable means not being able to erase.
- For eg; This pen is **inerasable**.
- It is clear that indelible and inerasable are synonyms.

★ Additional Information

- **Ineffective** means not producing any significant or desired effect.
- **Illegal** means contrary to or forbidden by law, especially criminal law.

- **Illegible** means not clear enough to be read.
- So, options 1,2, and 4 are **incorrect**.

90. Answer: d

Explanation:

The correct answer is the worst tropical cyclone

★ Key Points

- 'One of the worst tropical cyclones' should be there in place of 'One of the worst tropical cyclone'
- The 'one of' is a singular term and generally used to talk about a noun or a pronoun.
- The noun or a pronoun used after the phrase "one of" is always in the plural form.
- The helping verb will always be in the singular form, as the helping verb agrees with "one of" and not with the plural noun in the sentence.

Example: *One of the students was selected to visit NASA.*

Thus, the correct sentence is: *Cyclone Idai is regarded as one of the worst tropical cyclones on record to affect Africa and the Southern Hemisphere as a whole.*

91. Answer: d

Explanation:

The correct answer is were given

★ Key Points

- 'was given' should be there in place of 'were given'
- Each, every, everyone, Someone, Somebody, Nobody, None, One, Any, Many a, More than one are singular. Hence they will take singular verb, singular noun,

and singular pronoun.

- **Examples:**
 - **Each** student **has come**.
 - **Each** boy and **each** girl **has** come.

Thus, the correct sentence is: *Every employee of the company **was** given a two-bedroom flat as a Diwali bonus.*

92. Answer: c

Explanation:

The correct answer is conservation

★ Key Points

- **Meaning of the words given in the options are:**
 - **Salvation** means preservation or deliverance from harm, ruin, loss, and the restoration of the natural environment and of wildlife.
 - **Guarding** means watch over in order to protect or control.
 - **Supervision** means to observe and direct the execution of (a task or activity).
 - **Conservation** means preservation, protection, or prevention of wasteful use of a resource.
- It is clear that conservation is the most suitable word while talking about wildlife or nature.
- So, options **1, 2 and 4** are **incorrect**.

Thus, the complete sentence is: *There is hope that better forestry management will help in the conservation of the wildlife that is constantly facing threats because of increasing human activities.*

93. Answer: a

Explanation:

The correct answer is option 1.

*Pigeon racing has become increasingly popular in parts of China (1) **among** the country's elite and its middle class.*

Among is used when we are talking about things or **people as a group**.

For eg; There was unity among the council members.

In the given sentence we are talking about a group of elite and middle-class people.

Against is used when someone is **not in favour of an idea**, theory or person.

For eg; She was against this idea.

About is used while talking about **a particular thing**.

For eg; She was talking about us.

Along is used when talking about movement on or **beside something**.

For eg; Would you like to come along?

So, options 2,3 and 4 are incorrect.

94. Answer: a

Explanation:

The correct answer is option 1.

*Sun Yan, the deputy general-secretary of Beijing Racing Pigeons Association, (2) **said** that at least 100,000 pigeon breeders live in Beijing*

Said is used to convey information when the receiver is not mentioned in the sentence.

It is clear that **said** will be used because the deputy general gave general information and no receiver is mentioned.

For eg; She said, " I can't live like this. "

Advised means offer **suggestions** about the best course of action to someone.

Clarified means make (a statement or situation) less confused and **more comprehensible**.

Told is used to share information when the receiver is mentioned.

For eg; Have you told her about yesterday?

So, options **2,3 and 4** are **incorrect**.

95. Answer: a

Explanation:

The correct answer is option 1.

*and (3) **almost** 90,000 of them are registered with Racing Pigeons Associations*

Almost means not quite; **very nearly**.

For eg; He has almost reached.

It is clear that **almost** will be used as a general statement is being made to state that nearly 90,000 pigeon breeders out of 100,000 are registered with Racing pigeons associations.

Utmost means the greatest or **most extreme extent** or amount.

Exact means not approximated in any way; **precise**.

Nearby means not far away; **close**.

So, options **2,3 and 4** are **incorrect**.

96. Answer: d

Explanation:

The correct answer is option 4.

*at (4) **different** levels, to qualify for the games held in the spring and autumn.*

Differed is the past participle of differing.

Differential means of, showing, or depending on a difference; varying according to circumstances or relevant factors.

Differ means be unlike or dissimilar. It is a verb.

For eg; She differs from her.

Different means not the same and is an adjective.

For eg; There are different types of flowers.

It is clear that **different** will be used to describe the levels which are not the same.

So, options **1,2, and 3** are **incorrect**.

97. Answer: d

Explanation:

The correct answer is option 4.

*Competitions can be lucrative for (5) **bird** owners, with some prizes amounting to tens of thousands of dollars. Liu said in recent years, pigeon racing has been*

surging in popularity across China.

In the given sentence, we require a singular noun because the word following is plural i.e. **owners** . For the sentence to be in complete agreement we will use **bird** as options **1 and 2** are in plural form.

So, options **1,2 and 3** are **incorrect**.

98. Answer: b

Explanation:

The correct answer is option 2.

Agony means **extreme physical or mental suffering.**

*For eg; He fell to the ground in **agony**.*

Misery means **a state or feeling of great physical or mental distress or discomfort.**

Comfort means **a state of physical ease and freedom from pain or constraint.**

*For eg; Four people can travel in this car in **comfort**.*

It is clear that **agony and comfort** are antonyms.

Anxiety means **extreme anxiety, sorrow, or pain.**

Distress means **a feeling of worry, nervousness, or unease about something with an uncertain outcome.**

So, options **1,3 and 4** are **incorrect**.

99. Answer: d

Explanation:

The correct answer is option 4.

Stable means a building set apart and adapted for keeping horses.

Sanctuary means a nature reserve.

Apiary means a place where bees are kept; a collection of beehives.

Aviary means a large cage, building, or enclosure for keeping birds in.

So, options 1,2 and 3 are incorrect.

100. Answer: a

Explanation:

The correct answer is option 1.

They brought up their children with great care.

Firstly, we interchange the subject and the object. **They** will become the subject and **children** will become the object. In the given question, **were** is given, which means that the active form of the sentence is in the simple past tense, so we simply remove **were** and use the simple past tense of the main verb i.e **brought**.

So, options 2,3 and 4 are incorrect.