Prepp

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	UPTET
IBPS RRB	IBPS CLERK	IES	UPSC CAPF
SSC Stenogr..	RRB NTPC	SSC GD	RBI GRADE B
RBI Assistant	DSSSB		

SSC MTS Previous Year Paper (Held on: 21 Sep 2017 Shift 3)

Total Time: 1 Hour : 30 Minute

Total Marks: 100

Instructions

Sl No.	Section Name	No. of Question	Maximum Marks	Negative Marks	Positive Marks
1	General English	25	25	0.25	1
2	General Intelligence & Reasoning	25	25	0.25	1
3	Numerical Aptitude	25	25	0.25	1
4	General Awareness	25	25	0.25	1

1.) A total of 90 minutes is allotted for the examination.

2.) The server will set your clock for you. In the top right corner of your screen, a countdown timer will display the remaining time for you to complete the exam. Once the timer reaches zero, the examination will end automatically. The paper need not be submitted when your timer reaches zero.

3.) There will, however, be sectional timing for this exam. You will have to complete each section within the specified time limit. Before moving on to the next section, you must complete the current one within the time limits.

General English

1. In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'. (+1, -0.25)

   These five sisters (1)/ care for one other (2)/ like mothers. (3)/ No Error (4)/

   a. 1

   b. 2

   c. 3

   d. 4

2. Directions: In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'. (+1, -0.25)

   Akshay Kumar, being the (1)/ good actor he is, was (2)/ presented with the National Award. (3)/ No Error (4)/

   a. 1

   b. 2

   c. 3

   d. 4

3. In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option. (+1, -0.25)

   More than thirty years have now passed _ _ _ _ _ _ I took my first flight.

a. Since

b. After

c. While

d. When

---

4. In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.   (+1, -0.25)

Raman has come up _____ a problem.

a. For

b. With

c. Of

d. Into

---

5. In the following question, out of the give four alternatives, select the one which best expresses the meaning of the given word.   (+1, -0.25)

Plight

a. Blessing

b. Aid

c. Relief

d. Difficulty

6. In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word.   (+1, -0.25)

Articulate

a. Distinct

b. Unclear

c. Disconnect

d. Secret

7. In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word.   (+1, -0.25)

Mandatory

a. Optional

b. Voluntary

c. Essential

d. Unnecessary

8. In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word.   (+1, -0.25)

Negotiate

a. Adjust

b. Consult

c. Debate

d. Remain

---

9. In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word.   (+1, -0.25)

Distress

   a. Concern

   b. Pleasure

   c. Anxiety

   d. Discomfort

---

10. In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word.   (+1, -0.25)

Tolerate

   a. Accept

   b. Bear

   c. Permit

   d. Disapprove

---

11. In the following question, out of the given four alternatives, select the alternative which best expresses the meaning of the Idiom/Phrase.   (+1, -0.25)

Break the ice

   a. Bad intention

   b. To escape

    c. To break the silence

    d. To fail

---

12. In the following question, out of the given four alternatives, select the   (+1, -0.25)
alternative which best expresses the meaning of the Idiom/Phrase.

Cry in the wilderness

    a. Upset the balance

    b. An unrealistic demand

    c. To defeated completely

    d. A sudden shock

---

13. In the following question, out of the four alternatives, select the alternative   (+1, -0.25)
which will improve the bracketed part of the sentence. In case no
improvement is needed, select "no improvement".

(Upto) the time he wasn't here, we were not sure if he will actually come.

    a. Till

    b. To

    c. Until

    d. No improvement

---

14. In the following question, out of the four alternatives, select the alternative   (+1, -0.25)
which will improve the bracketed part of the sentence. In case no
improvement is needed, select "no improvement".

As feared, (differences into) the families posed a hurdle.

a. Difference into

b. Difference as in

c. Difference amongst

d. No improvement

15. In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. (+1, -0.25)

That which cannot be put out

a. Illusion

b. Indigenous

c. Incentive

d. Inextinguishable

16. In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. (+1, -0.25)

The system which is observed to do progress

a. Violation

b. Impairing

c. Preservation

d. Reformism

17. In the following question, a word has been written in four different ways out of which only one is correctly spelt. Select the correctly spelt word. (+1, -0.25)

a. Benaficial

b. Benfical

c. Beneficial

d. Beneficle

---

18. In the following question, a word has been written in four different ways   (+1, -0.25)
    out of which only one is correctly spelt. Select the correctly spelt word.

    a. Continuous

    b. Contenuous

    c. Continous

    d. Countionuous

---

19. The question below consists of a set of labelled sentences. Out of the four   (+1, -0.25)
    options given, select the most logical order of the sentences to form a
    coherent paragraph.

    Integrating diversity

    P: governance which is firmly grounded

    Q: in international human rights law

    R: goes hand in hand with

    a. QPR

    b. RPQ

    c. PRQ

    d. QRP

20. The question below consists of a set of labelled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.   (+1, -0.25)

Demographic pressure

P: wage rate below

Q: the subsistence level

R: cannot push the

   a. QPR

   b. RPQ

   c. QRP

   d. PQR

21. In the following passage some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives.   (+1, -0.25)

Books are our _ _ _ _ _ _ friends. They are our guides. We can learn everything from them. The books contain all the great _ _ _ _ _ _ of the world's leaders and we can learn them by reading the books. The books help us find _ _ _ _ _ _ to our questions. The books never fail us. We should read as _ _ _ _ _ _ books as we can. But all books are not good. So we should _ _ _ _ _ _ only good books.

   Books are our _ _ _ _ _ _ _ _ friends.

   a. Fake

   b. Original

   c. Real

    d. Majestic

---

22. In the following passage some of the words have been left out. Read the   (+1, -0.25)
    passage carefully and select the correct answer for the given blank out of
    the four alternatives.

    Books are our _ _ _ _ _ _ friends. They are our guides. We can learn
    everything from them. The books contain all the great _ _ _ _ _ _ of the
    world's leaders and we can learn them by reading the books. The books
    help us find _ _ _ _ _ _ to our questions. The books never fail us. We should
    read as _ _ _ _ _ _ books as we can. But all books are not good. So we
    should _ _ _ _ _ _ only good books.

    the great _ _ _ _ _ _ of our world

      a. Feel

      b. Thoughts

      c. Idle

      d. Money

---

23. In the following passage some of the words have been left out. Read the   (+1, -0.25)
    passage carefully and select the correct answer for the given blank out of
    the four alternatives.

    Books are our _ _ _ _ _ _ friends. They are our guides. We can learn
    everything from them. The books contain all the great _ _ _ _ _ _ of the
    world's leaders and we can learn them by reading the books. The books
    help us find _ _ _ _ _ _ to our questions. The books never fail us. We should
    read as _ _ _ _ _ _ books as we can. But all books are not good. So we
    should _ _ _ _ _ _ only good books.

    The books help us find _ _ _ _ _ _ to

      a. Answers

b. Solutions

c. Relations

d. Opinions

---

24. In the following passage some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives.

    (+1, -0.25)

    Books are our _____ friends. They are our guides. We can learn everything from them. The books contain all the great _____ of the world's leaders and we can learn them by reading the books. The books help us find _____ to our questions. The books never fail us. We should read as _____ books as we can. But all books are not good. So we should _____ only good books.

    _____ books as we can.

    a. Much

    b. Many

    c. Few

    d. Less

---

25. In the following passage some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives.

    (+1, -0.25)

    Books are our _____ friends. They are our guides. We can learn everything from them. The books contain all the great _____ of the world's leaders and we can learn them by reading the books. The books help us find _____ to our questions. The books never fail us. We should read as _____ books as we can. But all books are not good. So we should _____ only good books.

So we should _ _ _ _ _ _ only good books and read them.

a. Choose

b. Steel

c. Remove

d. Looking

26. In the following question, select the number which can be placed at the sign of question mark (?) from the given alternatives.   (+1, -0.25)

2	1	5
4	2	3
3	6	2
25	13	?

   a. 16

   b. 30

   c. 31

   d. 41

27. How many triangles are there in the given figure?   (+1, -0.25)

   a. 8

   b. 10

   c. 12

d. 9

---

28. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as shown in the given two matrices. The columns and rows of Matrix-I are numbered from 0 to 4 and that of Matrix-II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, for example, 'P' can be represented by 10, 56 , etc., and 'K' can be represented by 30, 58, etc. Similarly, you have to identify the set for the word "FRONT".

(+1, -0.25)

Matrix-I					
	0	1	2	3	4
0	F	H	J	L	N
1	P	R	T	V	X
2	Z	B	D	G	E
3	K	M	O	Q	S
4	U	W	Y	A	C

Matrix-I					
	5	6	7	8	9
5	N	P	I	K	B
6	L	E	R	M	A
7	J	T	O	O	Y
8	H	V	B	Q	W
9	F	X	Z	C	U

a. 00, 11, 32, 56, 76

b. 95, 67, 32, 56, 12

c. 00, 67, 78, 04, 76

d. 95, 11, 33, 55, 77

---

29. From the given answer figures, select the one in which the question figure   (+1, -0.25)
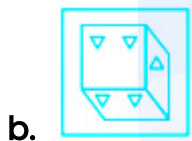is hidden/embedded.

a.

b.

c.

d.

---

30. Which answer figure will complete the pattern in the question figure?   (+1, −0.25)
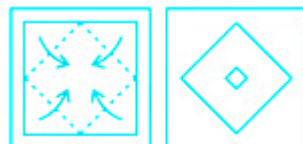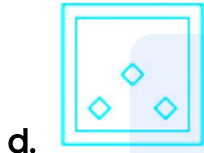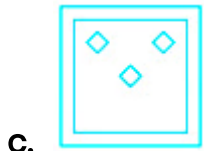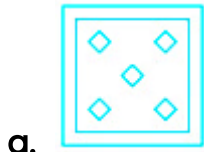

a.

b.

c.

d.

---
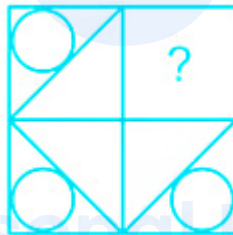
31. If a mirror is placed on the line AB, then which of the answer figures is the right image of the given figure?   (+1, -0.25)

a.

b.

c.

d.

---

32. A piece of paper is folded and punched as shown below in the question figures, indicate how it will appear when opened?   (+1, -0.25)

a.

b.

c.

d.

---

33. If 'A' means '+', 'B' means '−', 'C' means '×' and 'D' means '÷', then which of the following equations is true? (+1, −0.25)

a. 12 D 6 A 4 C 3 = 12

b. 48 D 3 C 2 = 31

c. 14 C 2 D 7 A 3 = 6

d. 24 C 3 B 14 = 58

---

34. If 9 $ 4 = 17 and 1 $ 5 = 10, then 3 $ 6 = ? (+1, −0.25)

a. 11

b. 14

c. 13

d. 16

---

35. Arrange the given words in the sequence in which they occur in the dictionary.

(+1, -0.25)

1. Book

2. Bread

3. Butter

4. Bayern

5. Bulb

a. 42135

b. 41253

c. 42153

d. 41235

---

36. In the following question, select the missing number from the given alternatives.

(+1, -0.25)

7, 26, ?, 124, 215, 342

a. 63

b. 65

c. 66

d. 67

---

37. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.   (+1, -0.25)

A, D, I, P, ?

a. U

b. R

c. W

d. Y

38. In the following question, select the odd word pair from the given alternatives.   (+1, -0.25)

a. Oxygen : Gas

b. Mercury : Gas

c. Gold : Metal

d. Uranium : Metal

39. In the following question, select the odd number pair from the given alternatives.   (+1, -0.25)

a. 4 : 18

b. 7 : 51

c. 9 : 83

d. 6 : 34

---

40. In the following question, select the odd letter from the given alternatives.   **(+1, −0.25)**

  a. U

  b. S

  c. Q

  d. G

---

41. Identify the diagram that best represents the relationship among the   **(+1, −0.25)**
given classes.

Reptiles, Lizard, Lion

a.

b.

c.

d.

---

42. In the following question, select the related word from the given alternatives. (+1, −0.25)

Saw : Carpenter : : Axe : ?

a. Ironsmith

b. Woodcutter

c. Cobbler

d. None of those

---

43. In the following question, select the related number from the given alternatives. (+1, −0.25)

8 : 27 : : 64 : ?

a. 190

b. 144

c. 125

d. 72

---

44. In the following question, select the related letters from the given alternatives. (+1, −0.25)

NP : HJ :: SY : ?

a. NT

b. MS

c. MT

d. NS

---

45. In the following question, select the word which cannot be formed using the letters of the given word. **(+1, -0.25)**

BILLIONAIRE

a. RANT

b. BONE

c. RAIN

d. LINE

---

46. The ratio of present ages of Raman and Lamba is 7 : 5. After 6 years age of Raman will be 48 years. What is the present age (in years) of Lamba? **(+1, -0.25)**

a. 30

b. 25

c. 35

d. 40

---

47. Weight of Sona is four times that of Mona. Weight of Mona is 2.5 times of Hona. Weight of Hona is 1.5 times of Dhona. Weight of Dhona is 2.5 times of Rona. Who is the heaviest? **(+1, -0.25)**

a. Mona

b. Sona

c. Hona

d. Dhona

---

48. In the following question below are given some statements followed by some conclusions. Taking the given statements to be true even if they seem to be at variance from commonly known facts, read all the conclusions and then decide which of the given conclusion logically follows the given statements. **(+1, -0.25)**

Statements:

I. All books are pens.

II. All pens are tables.

Conclusions:

I. Some pens are tables.

II. All tables are books.

a. Only conclusion (I) follows.

b. Only conclusion (II) follows.

c. Both conclusion follow.

d. Neither conclusion (I) nor conclusion (II) follows.

---

49. In a certain code language, "PAGE" is written as "QCJI". How is "CALL" written in that code language? **(+1, -0.25)**

a. DCOP

b. DCOQ

c. DDOP

d. DCOR

---

50. In a certain code language, "GOAT" is written as "45" and "COAT" is written   **(+1, -0.25)**
as "41". How is "BOAT" written in that code language?

a. 40

b. 41

c. 42

d. 43

Numerical Aptitude

51. Which smallest number must be subtracted from 400, so that the resulting number is completely divisible by 7?   **(+1, -0.25)**

    a. 6

    b. 1

    c. 2

    d. 4

---

52. The sum of three consecutive even integers is 84. Which is the least integer among them?   **(+1, -0.25)**

    a. 28

    b. 30

    c. 32

    d. 26

---

53. A number exceeds its 1/6 by 30. What is the number?   **(+1, -0.25)**

    a. 120

    b. 150

    c. 36

    d. 24

---

54. What is the digit in unit's place of the product 51 × 52 × 53 ...... 59?   (+1, -0.25)

    a. 0

    b. 4

    c. 3

    d. 6

55. What is the value of $\left[2^{\left(3^2\right)}\right]$?   (+1, -0.25)

    a. 64

    b. 128

    c. 512

    d. 256

56. How many numbers less than 200 are multiples of both 5 and 6?   (+1, -0.25)

    a. 21

    b. 7

    c. 9

    d. 6

57. Working 10 hours a day, Aman can complete a piece of work in 18 days.   (+1, -0.25)
How many hours a day should he work so as to finish the work in 15 days?

a. 10

b. 12

c. 16

d. 18

---

58. A can do a piece of work in 10 days and B in 12 days. With help of C, they finish the work in 4 days. In how many days C alone can do the same work?   (+1, −0.25)

a. 12

b. 15

c. 18

d. 24

---

59. The lengths of two diagonals of a rhombus are 24 cm and 32 cm. What is the side (in cm) of the rhombus?   (+1, −0.25)

a. 20

b. 40

c. 20√2

d. 40√2

---

60. The marked price of a chair is Rs 550 and a discount of 20% is given on it. What is the selling price (in Rs)?   (+1, −0.25)

a. 440

b. 430

c. 470

d. 390

61. The marked price of an article is Rs. 960 and it is sold at a discount of Rs. 192. What is the discount percentage? **(+1, -0.25)**

a. 15

b. 20

c. 25

d. 30

62. If A : B = 1 : 4 and B: C = 2 : 3, then what is A : B : C? **(+1, -0.25)**

a. 1 : 4 : 6

b. 2 : 8 : 7

c. 2 : 8 : 5

d. 1 : 4 : 5

63. If $x/y = 2/3$, then what is the ratio of $(3x + 2y)$ and $(3x - y)$? **(+1, -0.25)**

a. 4 : 1

b. 3 : 1

c. 2 : 1

d. 4 : 3

---

64. The average of 21 numbers is 12. The average of the first 11 numbers is 9 and the average of the last 11 numbers is 15. What is the value of the middle number? **(+1, −0.25)**

a. 10

b. 11

c. 12

d. 13

---

65. If the rice is sold at Rs. 56 per kg, there would be a 40% loss. To earn a profit of 20% what should be the price of rice (per kg)? **(+1, −0.25)**

a. 112

b. 108

c. 116

d. 124

---

66. If the profit is 20%, what will be the ratio of cost price to selling price respectively? **(+1, −0.25)**

a. 4 : 5

b. 5 : 6

c. 2 : 5

d. 3 : 4

---

67. In a school 60% of the students are girls. If number of boys is 480, then what is the total number of students in the school?   **(+1, -0.25)**

a. 1200

b. 840

c. 96

d. 1320

---

68. If one-third of a number is 45, then what will be the 45% of that number?   **(+1, -0.25)**

a. 60.75

b. 58.25

c. 61.25

d. 70.75

---

69. Speeds of a boat along the current and against the current are 14 km/hr and 7 km/hr respectively. What is the speed of boat (in km/hr) in still water?   **(+1, -0.25)**

a. 3.5

b. 7.5

c. 10.5

d. 9.5

---

70. A person goes from point N to P and comes back. His average speed for the whole journey is 60 km/hr. If his speed while going from N to P is 40 km/hr, then what will be the speed of the person (in km/hr) while coming back from P to N?   (+1, -0.25)

   a. 80

   b. 100

   c. 120

   d. 140

---

71. A certain principal is invested in a scheme of compound interest. The amount obtained after 1 year is Rs. 2400 and the amount obtained after 2 years is Rs. 2880. What is the rate of interest (in percentage)?   (+1, -0.25)
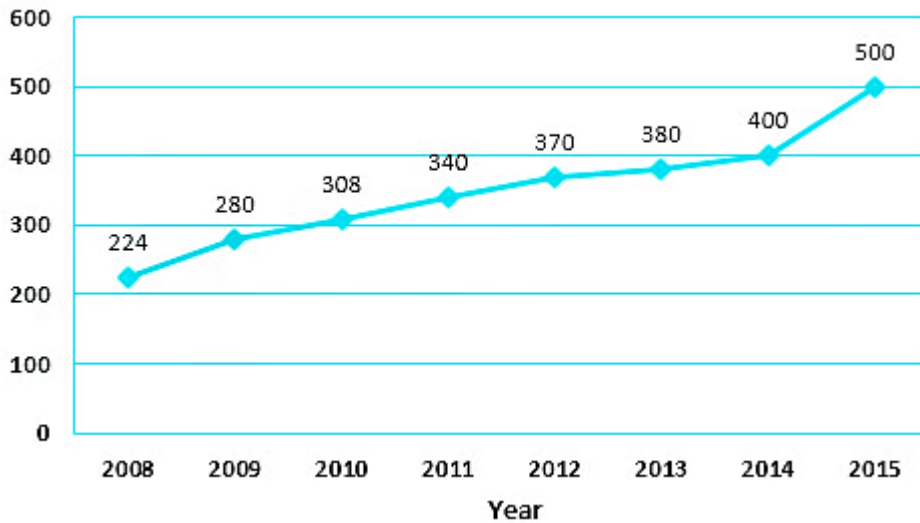
   a. 20

   b. 15

   c. 25

   d. 10

---

72. **Directions:** The line chart given below shows the profit (in crores) of a company for the years 2008 to 2015.   (+1, -0.25)

In how many years from 2009 to 2015 the increase in profit with respect to previous years is more than 30 crores?

a. 3

b. 2

c. 5

d. 1

---

73. **Directions:** The line chart given below shows the profit (in crores) of a company for the years 2008 to 2015.   (+1, −0.25)
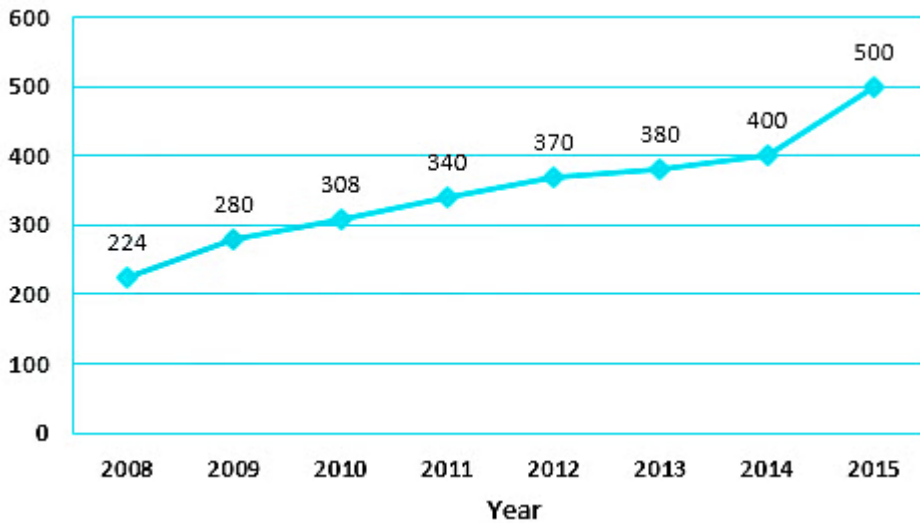
What is the percentage increase in profit in the year 2010 in comparison to the previous year?

a. 20

b. 12

c. 10

d. 25

---

74. **Directions:** The line chart given below shows the profit (in crores) of a company for the years 2008 to 2015.

(+1, −0.25)

The profit in 2015 is what percent of the profit in 2014?

a. 75

b. 115

c. 135

d. 125

---

75. **Directions:** The line chart given below shows the profit (in crores) of a company for the years 2008 to 2015.

(+1, -0.25)

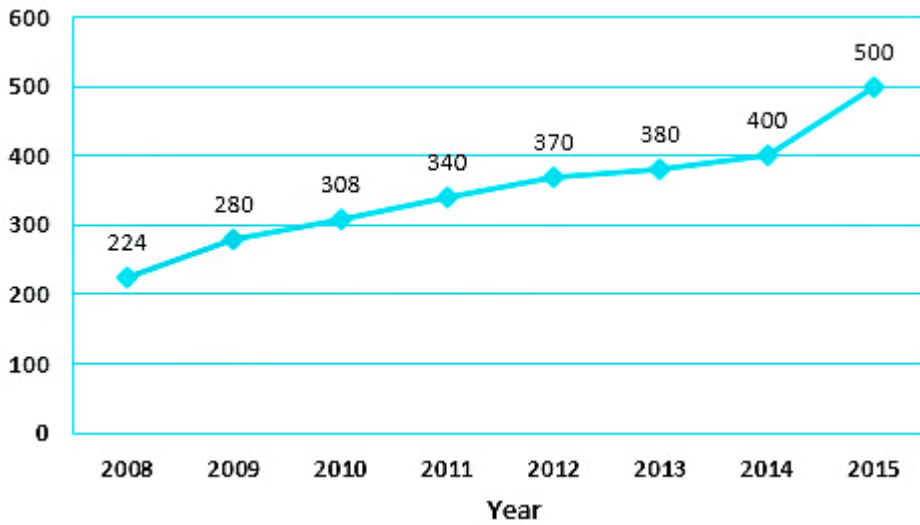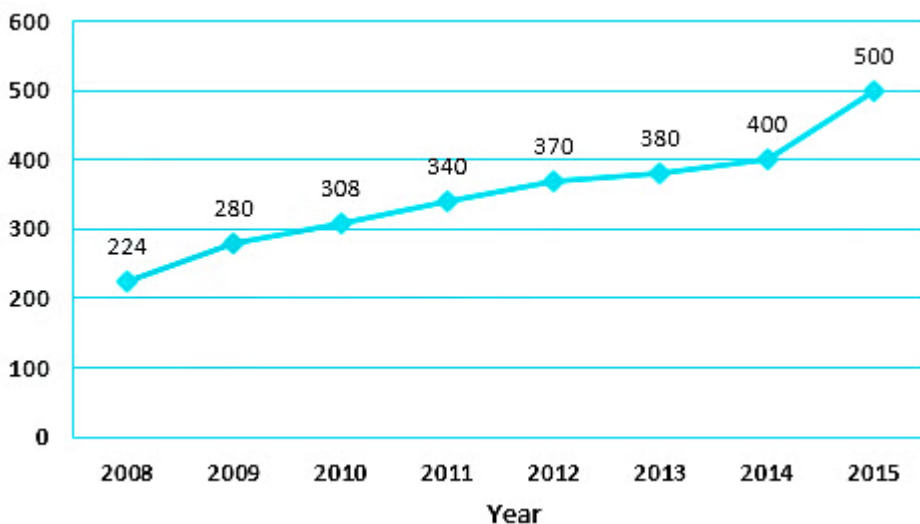What is the average profit per year from 2011 to 2015?

a. 398

b. 406

c. 384

d. 387

General Awareness

76. Micro-economics is also called _____.   (+1, -0.25)

   a. Theory of Profit

   b. Theory of Loss

   c. Theory of Price

   d. Theory of Expenditure

---

77. Transport comes under which sector of economic growth?   (+1, -0.25)

   a. Secondary sector

   b. Primary sector

   c. Tertiary sector

   d. Quaternary sector

---

78. Which among the following refers to the existence of more than one level   (+1, -0.25)
    of Government in the Country?

   a. Democracy

   b. Federalism

   c. Monarchy

   d. Autocracy

---

79. Which among the following Amendment Act is also known as 'Mini Constitution'?   (+1, -0.25)

    a. 2nd Amendment

    b. 42nd Amendment

    c. 48th Amendment

    d. 57th Amendment

---

80. In which language did Vardhaman Mahavira taught?   (+1, -0.25)

    a. Prakrit

    b. Hindi

    c. Pali

    d. Sanskrit

---

81. During which period Non-Cooperation Movement gained momentum?   (+1, -0.25)

    a. 1910-1912

    b. 1915-1917

    c. 1921-1922

    d. 1930-1932

---

82. The moon that we see in the sky is a _____.   (+1, -0.25)

a. Planet

b. Star

c. Sun

d. Satellite

---

83. The world's longest river the Nile, flows through which continent?   (+1, −0.25)

a. South America

b. Africa

c. North America

d. Europe

---

84. Which category of compound is most concentrated energy source?   (+1, −0.25)

a. Fats

b. Starch

c. Proteins

d. Vitamins

---

85. What is the main root of a plant known as?   (+1, −0.25)

a. Tap root

b. Lateral roots

c. Fibrous roots

d. Parasitic roots

---

86. The exchange of materials between blood and interstitial fluid occurs   **(+1, -0.25)**
only at the _ _ _ _ _ _ _ _ _.

   a. Veins

   b. Capillaries

   c. Arteries

   d. Pulmonary Arteries

---

87. The commonly used thermometric substance is _ _ _ _ _ _ _ _.   **(+1, -0.25)**

   a. Mineral oil

   b. Alcohol

   c. Mercury

   d. Petrol

---

88. Heat flows as a result of difference of _ _ _ _ _ _ _ _.   **(+1, -0.25)**

   a. Temperature

   b. Density

   c. Mass

   d. Volume

---

89. What is the full form of GUI?   (+1, −0.25)

    a. Graphical Universal Interface

    b. Graphical User Interface

    c. Graphical User Integration

    d. Graphical Universal Integration

90. A proton is identical to _____.   (+1, −0.25)

    a. The nucleus of helium

    b. The nucleus of a hydrogen atom

    c. An alpha-particle

    d. A beta particle

91. An α particle is _____.   (+1, −0.25)

    a. A hydrogen molecule

    b. A helium nucleus

    c. An atom of hydrogen

    d. A proton

92. What is the process of waste water treatment is commonly known? (+1, −0.25)

    a. Waste water management

b. Cleaning of water

c. Sewage treatment

d. Decontamination

---

93. When was "Pradhan Mantri Mudra Yojana" launched?   (+1, -0.25)

a. September 2014

b. November 2014

c. April 2015

d. January 2016

---

94. Who among the following discovered electron?   (+1, -0.25)

a. J.J Thomson

b. Max Born

c. Antoine Lavoisier

d. Mendeleev

---

95. Which team has won the 2016 -17 Ranji Trophy?   (+1, -0.25)

a. Mumbai

b. Gujarat

c. Karnataka

d. Tamil Nadu

---

96. Madhubani artwork started in which state of India? (+1, -0.25)

a. Bihar

b. Uttar Pradesh

c. Rajasthan

d. Gujrat

---

97. Who is the recipient of Kala Ratna Award 2017? (+1, -0.25)

a. Anupam Kher

b. Om Puri

c. Naseeruddin Shah

d. Prahlaj Nihalani

---

98. Who is the author of the book named "Making India Awesome"? (+1, -0.25)

a. Jairam Ramesh

b. Tarun Khanna

c. Chetan Bhagat

d. Amitav Ghosh

---

99. Which country has established new 2+2 ministerial dialogue with India similar to India Japan 2+2 dialogue?   (+1, −0.25)

   a. Britain

   b. Australia

   c. USA

   d. Israel

100. Which neighbouring country of India lies to the south of Lakshadweep islands?   (+1, −0.25)

   a. Maldives

   b. Bangladesh

   c. Myanmar

   d. Indonesia

Answers

1. Answer: b

Explanation:

The error is in 2). It should be **each other** instead of **one other** .*One other* doesn't make any sense. Hence, Option 2) is the correct answer.

---

2. Answer: d

Explanation:

The correct answer is '4 .'

⭐ **Key Points**

- In the given sentence, there is no error in any part of the sentence.
- The punctuations " **comma and full stop** " are correctly used.
- The adjective 'good' is used correctly before the noun ' actor' to describe it.
- The article 'the' is correctly used **before the specific or particular noun** " **National Award** ".

Hence, the correct answer is option 4 .

Correct Sentence: *Akshay Kumar, being the good actor he is, was presented with the National Award .*

- दिए गए वाक्य में वाक्य के किसी भी भाग में कोई गलती नहीं है।
- विराम चिह्न "अल्पविराम और पूर्ण विराम" का सही प्रयोग किया गया है।
- Adjective 'good' का noun ' actor' से पहले सही ढंग से प्रयोग किया गया है।
- विशिष्ट या विशेष noun " National Award " से पहले article 'the' का सही प्रयोग किया गया है।

अत: सही उत्तर विकल्प 4 है।

सही वाक्य:*Akshay Kumar, being the good actor he is, was presented with the National Award* .

---

3. Answer: a

Explanation:

'Since' is appropriate in this context. Hence, answer is Option 1.

---

4. Answer: b

Explanation:

The phrase *Come up with = produce something when challenged; encounter* fits in perfectly since he is **facing (encountering)** a problem. Hence, Option 2) *With* is the correct answer.

---

5. Answer: d

Explanation:

Plight = dangerous or difficult situation. Hence, Option 4) *Difficulty* is a synonym.

---

6. Answer: a

Explanation:

Articulate = clear; distinct. Hence, Option 1) *Distinct* is a synonym.

7. Answer: c

Explanation:

Mandatory = compulsory; binding; required. Hence, Option 3) *Essential (required)* is a synonym.

Voluntary = not compulsory; of one's own free will.

8. Answer: d

Explanation:

Negotiate = discuss; go through (an obstacle). Hence, according to the second meaning, Option 4) *Remain* is an antonym.

9. Answer: b

Explanation:

Distress = extreme anxiety; sorrow or pain. Hence, Option 2) *Pleasure* is an antonym.

10. Answer: d

Explanation:

Tolerate = allow; permit; bear. Hence, Option 4) *Disapprove* is an antonym.

11. Answer: c

Explanation:

The correct answer is **Option 3.**

To break the ice = *to initiate dialogue; to speak to break the silence.*
Let's see an example: *If you understand a culture, you can break the ice in a conversation*

---

12. Answer: b

Explanation:

Cry in the wilderness = an unheard appeal; a crazy appeal. Hence, Option 2) *An unrealistic demand* is the correct answer.

---

13. Answer: a

Explanation:

They were not sure of him coming the entire time before he actually came i.e **till** the time he wasn't there. Hence, Option 1) *Till* is the correct answer.

---

14. Answer: c

Explanation:

There is a **difference between** 2 things. For more than 2, use **among/amongst** . Hence, Option 3) *Difference amongst* is the correct answer.

---

15. **Answer: d**

Explanation:

Illusion = a false idea or belief or vision.

Indigenous = native; local.

Incentive = motivation; reason; encouragement.

Inextinguishable = which can't be put out or repressed.

Hence, Option 4) is the correct answer.

---

16. **Answer: d**

Explanation:

Violation = breaking or failing to comply with some rules.

Impairing = weaken or damage.

Preservation = maintain.

Reformism = making changes to improve or make progress.

Hence, Option 4) is the correct answer.

---

17. **Answer: c**

Explanation:

The correct spelling is 1) *Beneficial (advantageous).*

---

18. Answer: a

Explanation:

The correct spelling is 1) *Continuous* .

---

19. Answer: b

Explanation:

Since a sentence can't end with **with** or **which is firmly grounded** => Q is last in sequence => rule out 1) and 4). Integrating diversity governance which is firmly grounded = doesn't make any contextual sense => P can't be first. Hence, Option 2) *RPQ* is the correct answer.

Integrating diversity goes hand in hand with governance which is firmly grounded in international human rights law.

---

20. Answer: b

Explanation:

It is a grammatical rule that sentences can't end with *prepositions* (here: *below)* or *articles (the)* . Hence, Q is last in sequence and therefore, Option 2) *RPQ* is the correct answer.

Demographic pressure cannot push the wage rate below the subsistence level.

---

21. **Answer: c**

Explanation:

The para talks about books in a positive way. Rule out 1) fake. Option 3) *Real* is the more appropriate choice as compared to 2) *original* as original is used mostly for things.

Majestic = impressive.

22. **Answer: b**

Explanation:

The only possible thing books can contain out of the given options is 2) *Thoughts.*

23. **Answer: a**

Explanation:

Questions are always coupled with *answers.* Option 1) *Answers* is the correct answer.

24. **Answer: b**

Explanation:

Positive sense => rule out 3) and 4) since the more books that we read, the better. Option 2) *Many* is the correct answer as *much* is used with uncountable nouns but books = countable.

25. **Answer: a**

   Explanation:

   The only grammatically and contextually correct choice is 4) *Choose.*

---

26. **Answer: c**

   Explanation:

   The 1 st column can be written as

   2 × 4 × 3 = 24 + 1 = 25

   2 nd column

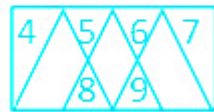   1 × 2 × 6 = 12 + 1 = 13

   Similarly, 3 rd column can be written as

   5 × 3 × 2 = 30 + 1 = 31

   Hence, 31 is the correct answer.

---

27. **Answer: b**

   Explanation:

Hence, there are a total of 10 triangles in the given figure.

---

28. **Answer: c**

Explanation:

1) 00, 11, 32, 56, 76 ⇒ F, R, O, P, T

2) 95, 67, 32, 56, 12 ⇒ F, R, O, P, T

3) 00, 67, 78, 04, 76 ⇒ F, R, O, N, T

4) 95, 11, 33, 55, 77 ⇒ F, R, Q, N, O

Therefore, the set of number which represents word "FRONT" is "00, 67, 78, 04, 76".
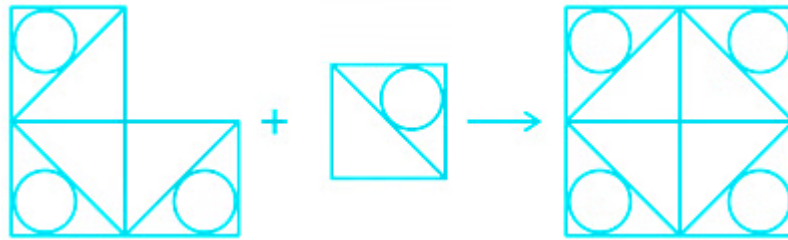
---

29. **Answer: a**

Explanation:
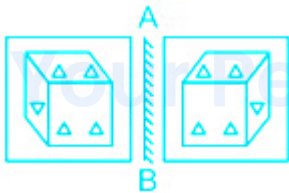
Hence, the question figure is embedded in figure 1.

---

30. **Answer: a**

Explanation:

The line drawn will be AC and not BD unlike figure 2) and 4). Also, figure 3) will not be applicable because the line does not touch the vertex at either ends.
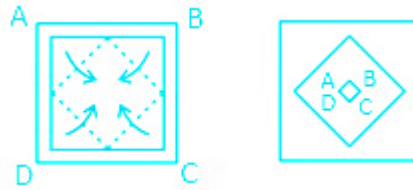
---

31. **Answer: a**

Explanation:

Hence, 1 is the correct answer.

---

32. **Answer: b**

Explanation:

The paper is folded at point A, B, C and D to form a square where the point of intersection will be these four points (A, B, C, D). A very small square is punched at the centre and when we unfold it, points A, B, C and D will be cut including the centre of the paper.

Hence, 2 is the correct answer.

---

33. Answer: d

Explanation:

Letter	A	B	C	D
Meaning	+	−	×	÷

1) 12 D 6 A 4 C 3 means $12 \div 6 + 4 \times 3 = 24 \neq 12$

2) 48 D 3 C 2 means $48 \div 3 \times 2 = 38 \neq 31$

3) 14 C 2 D 7 A 3 means $14 \times 2 \div 7 + 3 = 7 \neq 6$

4) 24 C 3 B 14 means $24 \times 3 - 14 = 58 = 58$

Hence, 24 C 3 B 14 = 58 is the correct answer.

---

34. Answer: c

Explanation:

9 $ 4 = 17 can be written as

9 + 4 + <u>4</u>= 17

1 $ 5 = 10 can be written as

1 + 5 + <u>4</u>= 10

Similarly, 3 $ 6 can be written as

3 + 6 + <u>4</u>= 13.

Hence, 13 is the correct answer.

---

35. **Answer: b**

Explanation:

4. **Ba** yern

1. **Bo** ok

2. **Br** ead

5. **Bul** b

3. **But** ter

Hence, the correct dictionary order will be 41253.

---

36. **Answer: a**

Explanation:

The pattern followed here is,

→ $2^3 - 1 = 7$

$\to 3^3 - 1 = 27 - 1 = 26$

$\to 4^3 - 1 = 64 - 1 = 63$

$\to 5^3 - 1 = 125 - 1 = 124$

$\to 6^3 - 1 = 216 - 1 = 215$

$\to 7^3 - 1 = 343 - 1 = 342$

Hence, 63 is the correct answer.

37. Answer: d

Explanation:

Consider the position of letters of the English Alphabet:

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

The pattern is as follows:

A + 3 = D

D + 5 = I

I + 7 = P

P + 9 = Y.

Hence, Y is the correct answer.

38. Answer: b

Explanation:

1) Oxygen : Gas ⇒ Oxygen is a gas

2) Mercury : Gas ⇒ Mercury is not a gas.

3) Gold : Metal ⇒ Gold is a metal

4) Uranium : Metal ⇒ Uranium is a metal.

In all the pairs, the second word describes the first. In Mercury : Gas, mercury is a metal.

Hence, Mercury : Gas is the odd word pair from the given alternatives.

---

39. **Answer: d**

Explanation:

1) 4 : 18

$4^2 + 2 = 18$

2) 7 : 51

$7^2 + 2 = 51$

3) 9 : 83

$9^2 + 2 = 83$

4) 6 : 34

$6^2 - 2 = 34$

After squaring the first number, 2 is added to them.

But in 4) 6 : 34, 2 is subtracted.

Hence, 6 : 34 is the odd number pair from the given alternatives.

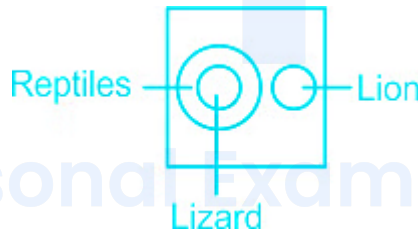## 40. Answer: a

Explanation:

S, Q and G are consonants whereas U is a vowel.

Hence, U is the odd letter from the given alternatives.

---

41. Answer: c

Explanation:

Lizard is a type of reptile and lion is an animal. Both are different types of living beings. So, Reptile will the bigger set with lizard as its subset. Lion will form a different set.

Hence, option 3 is the correct answer.

---

42. Answer: b

Explanation:

A carpenter uses saw to cut and shape wood. Similarly, a woodcutter uses an axe to cut wood.

Hence, Woodcutter is the correct answer.

43. **Answer: c**

Explanation:

8 : 27 can be written as

$2^3 : 3^3$

Similarly,

$4^3 : 5^3 = 64 : 125$.

Hence, 125 is the correct ans.

44. **Answer: b**

Explanation:

Consider the position of letters of the English Alphabet:

The pattern is as follows:

→ The letters are in reverse order and there are 5 letters in between them.

A B C D E F G<u>HI J K L M N</u>O P Q R S T U V W X Y Z → N : H

A B C D E F G H I<u>JK L M N O P</u>Q R S T U V W X Y Z → P : J

Similarly,

A B C D E F G H I J K L<u>MN O P Q R S</u>T U V W X Y Z → S : M

A B C D E F G H I J K L M N O P Q R<u>ST U V W X Y</u>Z → Y : S

Hence, MS is the correct answer.

45. Answer: a

Explanation:

In BILLIONAIRE, there is no 'T'.

Hence, the word RAN Tcannot be formed.

46. Answer: a

Explanation:

Raman : Lamba = 7 : 5

After 6 years,

Raman + 6 = 48

Raman's present age = 48 − 6 = 42

Thus, 42 : Lamba = 7 : 5

Lamba = 42 × 5/7 = 30.

Hence, Lamba's present age is 30 years.

47. Answer: b

Explanation:

In terms of weight,

From statement I: (Sona = 4 × Mona)

Sona > Mona

From statement II: (Mona = 2.5 × Hona)

Mona > Hona

From statement III: (Hona = 1.5 × Dhona)

Hona > Dhona

From statement IV: (Dhona = 2.5 × Rona)

Dhona > Rona

Combining all the four statements we get the final order:

Sona > Mona > Hona > Dhona > Rona.

Clearly, Sona is the heaviest.

---

48. **Answer: a**

Explanation:

We draw the least possible Venn diagram:
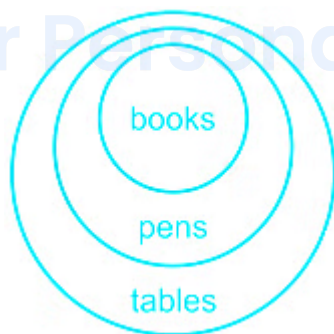
Conclusions:

I. Some pens are tables → It's true.

II. All tables are books → It's not possible. Hence, false.

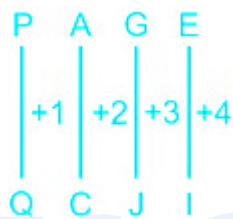Hence, only conclusion I is true.

49. Answer: a

Explanation:

Consider the position of letters of the English Alphabet:

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

'PAGE' can be written as

P   A   G   E
|+1|+2|+3|+4
Q   C   J   I

Similarly, 'CALL' can be written as

C   A   L   L
|+1|+2|+3|+4
D   C   O   P

Hence, DCOP is the correct ans.

50. Answer: a

Explanation:

Consider the position of letters of the English Alphabet:

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

'GOAT' can be written as

G O A T

$7 + 15 + 1 + 20 + 2 = 45$

'COAT' can be written as

C O A T

$3 + 15 + 1 + 20 + 2 = 41$

Similarly, 'BOAT' can be written as

B O A T

$2 + 15 + 1 + 20 + 2 = 40$

Hence, 40 is the correct ans.

---

51. **Answer: b**

Explanation:

After dividing 400 by 7:

⇒ Remainder = 1

⇒ 399 is exactly divisible by 7

∴ For 400 to be divisible by 7, 1 should be subtracted from it.

---

52. Answer: d

Explanation:

Let the smallest even integer be 'x'

⇒ x + x + 2 + x + 4 = 84

⇒ 3x + 6 = 84

⇒ x + 2 = 28

∴ x = 28 − 2 = 26

∴ Least integer is 26.

---

53. Answer: c

Explanation:

Let the number be x

According to the question:

⇒ (x/6) + 30 = x

⇒ x − (x/6) = 30

⇒ 5x/6 = 30

⇒ 5x = 180

∴ x = 180/5 = 36

---

54. Answer: a

Explanation:

To find the unit's digit of 51 × 52 × 53 …. 59

⇒ We need to find the unit digit of the product of all unit digits

⇒ 1 × 2 × 3 × 4 × 5 × 6 × 7 × 8 × 9 = 362880

∴ The unit digit of the whole product is 0.

---

55. Answer: c

Explanation:

Value of $[2^{(3^2)}]$:

⇒ $[2^{(3^2)}] = [2\ 9] = 512$

---

56. Answer: d

Explanation:

For a number to be a multiple of both 5 and 6, it should be a multiple of 5 × 6 = 30

⇒ We need to find the number of multiples of 30 within 200 which we can do by arithmetic progression.

⇒ First term, a = 30; common difference, d = 30 and since 200 is not divisible by 30

⇒ Last term, An = 180

⇒ An = a + (n − 1)d

⇒ 180 = 30 + (n − 1) × 30

⇒ 180 = 30 + 30n − 30

⇒ 30n = 180

∴ n = 180/30 = 6

∴ There are 6 numbers within 200 which are divisible by both 5 and 6.

---

57. Answer: b

Explanation:

Total working hours to complete the work = 10 × 18 = 180

Now, Limit to finish the work = 15

⇒ No. of hours to work upon on each day = 180/15 = 12

∴ Aman should work 12 hours a day to finish the work in 15 days.

---

58. Answer: b

Explanation:

Amount of work done by A in 1 day = 1/10

Amount of work done by B in 1 day = 1/12

Amount of work done by C in 1 day = 1/x

⇒ Amount of work done by all together in a day = 1/4

⇒ 1/10 + 1/12 + 1/x = 1/4

⇒ 1/x = 1/15

∴ C completes the work in 15 days.

59. Answer: a

Explanation:

The half of two diagonals form the sides of a right - angled triangle whereas the side of rhombus acts as the hypotenuse.

⇒ $(side)^2 = (24/2)^2 + (32/2)^2$

⇒ $(side)^2 = 12^2 + 16^2 = 144 + 256 = 400$

∴ Side = $\sqrt{400}$ = 20 cm

60. Answer: a

Explanation:

Marked Price = 550

⇒ Discount = 20%

⇒ Selling Price = 550 − 0.2 × 550 = 440

∴ Selling Price = Rs 440

61. Answer: b

Explanation:

MP = 960

Discount = 192

⇒ SP = 960 − 192 = 768

∴ Discount % = [(MP − SP)/MP] × 100 = 192/960 × 100 = 20%

---

62. Answer: a

Explanation:

Let A be x

⇒ B = 4x

Let B : C = 2 : 3 = 2y : 3y

⇒ 4x = 2y ⇒ 2x = y

∴ C = 3y = 3 × 2x = 6x

∴ A : B : C = x : 4x : 6x = 1 : 4 : 6

---

63. Answer: a

Explanation:

Given, x/y = 2/3 ⇒ x = 2y/3

Substituting the value of x in the equation:

⇒ (3x + 2y) and (3x − y) = (2y + 2y)/(2y − y) = 4y/y = 4 : 1

∴ Ratio = 4 : 1

---

64. Answer: c

Explanation:

Short Trick:

Middle number = 11 × 9 + 11 × 15 – 21 × 12 = 99 + 165 – 252

= 264 – 252 = 12

Detailed Solution:

Sum of 21 numbers = 12 × 21 = 252

Sum of first 11 numbers = 9 × 11 = 99

Sum of last 11 numbers = 15 × 11 = 165

∴ Sum of first 10 numbers = 252 − 165 = 87

∴ Middle number = Sum of first 11 numbers − Sum of first 10 numbers

⇒ 99 − 87 = 12

∴ Middle number = 12

65. Answer: a

Explanation:

Initial SP = 56

Loss = 40%

⇒ CP = 56 + 0.4 × CP

⇒ 0.6CP = 56

∴ CP = 56/0.6 = 93.33

∴ New SP with 20% profit = CP + 0.2 × CP = 93.33 + 0.2 × 93.33 = Rs. 112

66. Answer: b

Explanation:

Profit = 20% = 0.2 × CP

⇒ SP = CP + 0.2CP = 1.2CP

⇒ CP/SP = CP/1.2CP = 1/1.2 = 10/12 = 5/6 = 5 : 6

∴ Ratio = 5 : 6

---

67. Answer: a

Explanation:

% of Girls = 60

⇒ % of boys = 40

⇒ Let the total number of students = x

⇒ 40% of x = 480

⇒ 400/100 × x = 480

∴ x = 480/0.4 = 1200

∴ Total number of students = 1200

---

68. Answer: a

Explanation:

Let the number be x

⇒ x/3 = 45

⇒ x = 3 × 45 = 135

⇒ 45% of 135 = 0.45 × 135 = 60.75

∴ 45% of x = 60.75

---

69. **Answer: c**

Explanation:

Let the speed of the boat be u km/hr and the speed of water be a.

Speed of downstream = u + a = 14

Speed of upstream = u − a = 7

⇒ Adding the two equations

⇒ 2u = 21

∴ u = 21/2 = 10.5 km/hr

---

70. **Answer: c**

Explanation:

Average speed for whole journey = 60

Let x and y be the speeds while going and coming back respectively

⇒ x = 40 and y = ?

Let d be the distance between N to P

⇒ Total distance = 2d

⇒ Total Time = 2d/60 = d/30 hrs

⇒ Time taken to go from N to P = d/x = d/40

⇒ Time taken to go from P to N = d/y

⇒ d/40 + d/y = d/30

1/y = 1/30 − 1/40 = 1/120

∴ y = 120 km/hr

71. Answer: a

Explanation:

$A = P \left(1 + r/100\right)^t$, where P = Principal, t = time period, r is the rate of interest and A is the amount after including Compound interest.

Let the Principal amount = P

⇒ $2400 = P \left(1 + r/100\right)^1$------ (1)

After two years:

⇒ $2880 = P \left(1 + r/100\right)^t$------ (2)

Dividing (2) by (1)

⇒ 1 + r/100 = 2880/2400 = 1.2

⇒ r/100 = 0.2

⇒ r = 100 × 0.2 = 20%

∴ Interest Rate = 20%

72. Answer: a

Explanation:

Profit in 2009 = 280 − 224 = 56 crores

Profit in 2010 = 308 − 280 = 28 crores

Profit in 2011 = 340 − 308 = 32 crores

Profit in 2012 = 370 − 340 = 30 crores

Profit in 2013 = 380 − 370 = 10 crores

Profit in 2014 = 400 − 380 = 20 crores

Profit in 2015 = 500 − 400 = 100 crores

∴ In the years, 2009, 2011 and 2015 the profit is more than 30 crores.

---

73. Answer: c

Explanation:

Profit in 2009 = 280

Profit in 2010 = 308

∴ % increase = [(308 − 280)/280] × 100 = 10%

---

74. Answer: d

Explanation:

Profit in 2015 = 500

Profit in 2014 = 400

Let the x be the required %.

⇒ (x/100) × 400 = 500

$\Rightarrow x = 500/4 = 125\%$

$\therefore$ Profit in 2015 is 125% of profit in 2014.

---

75. Answer: a

Explanation:

$\Rightarrow$ Average = (340 + 370 + 380 + 400 + 500)/5 = 1990/5 = 398

$\therefore$ Average = 398 crores

---

76. Answer: c

Explanation:

The right answer is **Theory of Price**

⭐ **Key Points**

- The**theory of price**is a microeconomic principle that uses the concept of supply and demand to determine the appropriate price point for a good or service.
- This simple theory of determining prices is one of the core principles underlying economic theory.

---

77. Answer: c

Explanation:

The correct answer is **Tertiary sector.**

- Transportation comes under the**tertiary sector.**

- The tertiary sector or service sector is the third of the three economic sectors of the three-sector theory.
- The tertiary industry is one of three industry types in a developed economy.

⭐ Key Points

- The primary sector includes the production of raw material and basic foods.
- The secondary sector of the economy manufactures finished goods.
- The quaternary sector of the economy consists of intellectual activities.

---

78. Answer: b

Explanation:

- Federalism is the mixed or compound mode of government, combining a general government with regional governments in a single political system.
- Examples of the federal government include the United States, Germany, Canada, Switzerland, Australia and India.

---

79. Answer: b

Explanation:

- The 42nd amendment to Constitution of India is known as Mini Constitution.
- It was enacted during the Emergency (25 June 1975 – 21 March 1977) by the Indian National Congress government headed by Indira Gandhi.
- It is most comprehensive amendment to the Constitution and carried out major changes.

---

80. Answer: a

Explanation:

- Brahmi language was understood to very less people and only Brahmins were able to understand Brahmi.
- Prakrit was understood by majority of people.
- Sanskrit was not written until many centuries later that is why Vardhaman Mahavira was taught in Prakrit.

---

81. Answer: c

Explanation:

- Non-cooperation movement was organized by Mahatma Gandhi, to induce the British government of India to grant self-government, or swaraj, to India.
- It was one of Gandhi's first organized acts of large-scale civil disobedience.

---

82. Answer: d

Explanation:

- The Moon is an astronomical body that orbits planet Earth.
- It is the Earth's only natural satellite.
- It is the fifth-largest natural satellite in the Solar System.

---

83. Answer: b

Explanation:

The correct answer is **Africa** .

⭐ Key Points

- The Nile is a major north-flowing river in north-eastern Africa and is commonly considered the longest river in the world.
- With a length of 6,853 km (4,258 miles), the Nile is an "international" river as its drainage basin covers 11 countries, namely, Tanzania, Uganda, Rwanda, Burundi, the Democratic Republic of the Congo, Kenya, Ethiopia, Eritrea, South Sudan, Republic of the Sudan and Egypt.
- In particular, the Nile is the primary water source of Egypt and Sudan.
- The river Nile has two major tributaries, the White Nile and the Blue Nile.
- The White Nile is considered to be the headwaters and primary stream of the Nile itself.
- The Blue Nile, however, is the source of most of the water and silt.

⭐ <u>Additional Information</u>

Rivers	Description
Niger river	It flows in West Africa and it is the third-longest river in Africa.
Congo River	It is the second-longest river in Africa.
Nile River	It is a north-flowing river in northeastern Africa and is the longest river in the world.

84. Answer: a

Explanation:

<u>Fat</u>is the most concentrated source of food energy.

- It is one of the three main macronutrients, along with carbohydrates and protein.
- Examples of fats are cholesterol, phospholipids.
- **Vitamin** is an organic molecule that is an essential micronutrient that an organism needs in small quantities for the proper functioning of its metabolism.
- **Protein** is a substance that has amino acids, compounds and carbon, hydrogen, oxygen, nitrogen and sometimes sulfur and is found in many foods.
- **Starch** is a polymeric carbohydrate. This polysaccharide is produced by most green plants as energy storage.

85. Answer: a
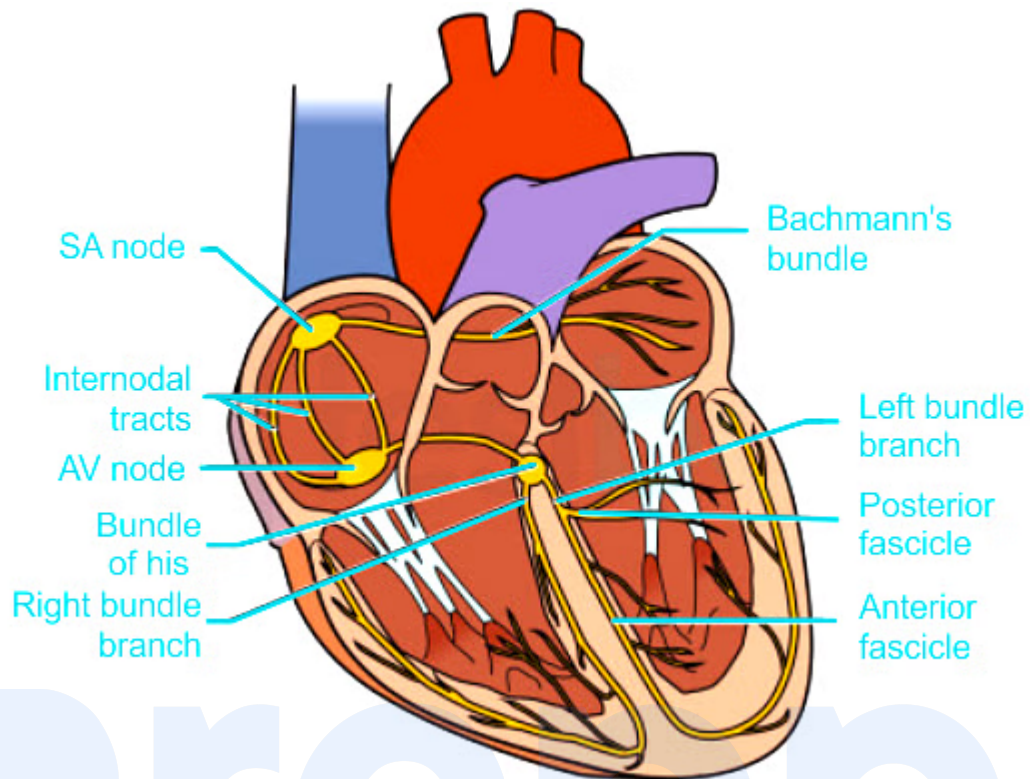
Explanation:

- <u>The main root of a plant is called the taproot.</u>
- The taproot system occurs in dicot plants and is one of the bases of distinguishing these plants from the monocots which have fibrous roots.
- In plants having a taproot system, the trunk-like primary root develops directly from the embryonic root called radicle and grows downward into the soil.

---

86. **Answer: b**

Explanation:

- The primary function of capillaries is the exchange of materials between the blood and tissue cells.
- Gas exchange occurs across capillary walls in a manner similar to that which occurs across alveoli and pulmonary capillaries.
- Substances pass through the capillary wall by diffusion, filtration, and osmosis.

Arteries	carry blood to all parts of the body from the heart
Veins	carry blood from different parts of our body to the heart

87. **Answer: c**

Explanation:

- Mercury is the only one in liquid state at room temperature.
- It is used in thermometers because it has high co-efficient of expansion.
- Hence, the slightest change in temperature is notable when it's used in a thermometer.

88. **Answer: a**

Explanation:

The correct answer is **Temperature**

⭐ **Key Points**

- Heat flows when you bring two objects of **different temperatures** together.
- Heat energy always transferred from the **hotter** to the **cooler** object.
- The objects will exchange heat until their temperatures are equal i.e. thermal equilibrium is reached.
- The temperature of a body can be defined as the state or condition which would determine the direction of flow of heat when this body is placed in contact with another body.

---

89. Answer: b

Explanation:

- GUI stands for Graphical User Interface.
- It allows the users to interact with electronic devices through graphical icons and visual indicators.

---

90. Answer: b

Explanation:

- A proton is identical to the nucleus of a hydrogen atom
- It is same as H+ (hydrogen cation) which means that if we remove all the electrons of Hydrogen then it will become a Hydrogen cation which is same as proton.

---

91. Answer: b

Explanation:

- Alpha particles consist of two protons and two neutrons bound together into a particle identical to a helium nucleus.

- An alpha particle is like Helium nucleus that and has no electrons and has the valency 2+.
- Alpha particles are emitted by radioactive nuclei such as uranium or radium, in a process known as alpha decay.

92. Answer: c

Explanation:

- Sewage treatment is the process of removing contaminants from wastewater, primarily from household sewage.
- Physical, chemical, and biological processes are used to remove contaminants and produce treated wastewater that is safer for the environment.

93. Answer: c

Explanation:

- Pradhan Mantri Mudra Yojana (PMMY) is scheme of Government of India launched on 8th April 2015.
- It was launching to fund the enterprises to the formal financial system and extending affordable credit to them.

94. Answer: a

Explanation:

J.J. Thomson	Sir Joseph John Thomson was an English physicist and Nobel Laureate in Physics, credited with the discovery and identification of the electron.
Max Born	Max Born was a German physicist and mathematician who was instrumental in the development of quantum mechanics.
Antoine Lavoisier	Antoine-Laurent de Lavoisier was a French nobleman who had a large influence on both the history of chemistry and the history of biology.
Mendeleev	He formulated the Periodic Law, created a farsighted version of the periodic table of elements, and used it to correct the properties of some already discovered elements.

95. Answer: b

Explanation:

Gujarat has won the 2016 -17 Ranji Trophy by defending champion Mumbai.

96. Answer: a

Explanation:

- Madhubani art also known as Mithila art is practiced in the Mithila region of Bihar.

- In this art form painting is done with fingers, twigs, brushes, nib-pens, and matchsticks, using natural dyes and pigments.
- The artwork is characterised by eye-catching geometrical patterns.

---

97. Answer: a

Explanation:

- Veteran actor Anupam Kher honoured with the Kala Ratan Award by Vice President.
- He was awarded for his contribution in Bollywood, he worked in more than 400 films.

---

98. Answer: c

Explanation:

- 'Making India Awesome: New Essays and Columns' is written by Chetan Bhagat.
- This book showers light on India's most obstinate snags-unemployment, violence, poverty, discrimination against women, religious fundamentalism, illiteracy and communal violence.
- It is a book of essays in which he analyses and provides inspired solutions to the country's most intractable problems.

---

99. Answer: c

Explanation:

- India and US have established new two-by-two (2 by 2) ministerial dialogue to enhance strategic coordination between them and maintaining peace and stability in the Indo-Pacific region.

- It will be similar to the India-Japan 2+2 dialogue format between foreign and defence secretaries of the two countries

---

100. **Answer: a**

Explanation:

- Sri Lanka and Maldives are the two island countries that are the Southern neighbours of India.
- Maldives island country lies to the south of India