

# Prepp

## Your Personal Exams Guide



NDA



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MPSC



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IES



UPSC CAPF



SSC Stenogr..



RRB NTPC



SSC GD



RBI GRADE B



RBI Assistant



DSSSB

# SSC MTS Previous Year Paper (Held on: 3 Oct 2017 Shift 1)

Total Time: 1 Hour : 30 Minute

Total Marks: 100

## Instructions

Sl No.	Section Name	No. of Question	Maximum Marks	Negative Marks	Positive Marks
1	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)

Arun likes to (1)/ eat, sleep and (2)/ reading. (3)/ No Error (4)/

- a. 1
- b. 2
- c. 3
- d. 4

2. 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 the sentence is free from error, select 'No Error'. (+1, -0.25)

They compromise with (1)/ our health because they contain (2)/ harmful preservatives. (3)/ No Error (4)/

- a. 1
- b. 2
- c. 4
- d. 3

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)

When Mr. Batra heard the news of his daughter's selection to the college's football team, he felt \_\_\_\_\_.

- a. Exasperated
- b. Embittered
- c. Elated
- d. Enamoured

- 
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)

Shikha said that she had never \_\_\_\_\_ a book she liked so much.

- a. Come across
- b. Viewed on
- c. Help upon
- d. Saw into

- 
5. 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)

Pioneer

- a. Last
- b. Developer
- c. Modern

d. Following

---

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)

Ethical

a. Immoral

b. Unjust

c. Corrupt

d. Equitable

---

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)

Scatter

a. Disperse

b. Gather

c. Reconcile

d. Collect

---

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)

Weird

a. Usual

b. Awful

- c. Creepy
- d. Fearful

---

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

Charity

- a. Donation
- b. Stealing
- c. Gifting
- d. Offering

---

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

Hostile

- a. Alien
- b. Hateful
- c. Opposed
- d. Gentle

---

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)

Fool's paradise

- a. In which no team wins

- b. To be tired of being happy
- c. Being happy for foolish reasons
- d. Be secretive for unfound reasons

---

12. 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)

Golden mean

- a. Of very important use
- b. To make favourable chance
- c. Neither too much nor too little
- d. To take risk

---

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

Krishna will (come) in the shrine of one hearts.

- a. See
- b. Made
- c. Appear
- d. No improvement

---

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

(Wherever), you may find other jobs of your interest below.

- a. However
- b. Into
- c. Greatly
- d. No improvement

---

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

Somebody that foretells the coming of something

- a. Estimation
- b. Harbinger
- c. Endemic
- d. Prodigy

---

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

Send back a criminal into custody for further investigation.

- a. Summon
- b. Notice
- c. Remand
- d. Offence



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. Celebrat
- b. Celebrate
- c. Clebrate
- d. Celibrate

18. 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. Dialog
- b. Dailogue
- c. Dialogue
- d. Dialouge

19. 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)

Dance and laughter

P: easily approachable doors

Q: are the best, natural and

R: to attaining a peaceful mindset

- a. RQP
- b. QPR

c. PQR

d. PRQ

---

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)

Thinking that

P: you know when, in fact,

Q: you do not, is a bad mistake,

R: to which we are all prone.

a. RQP

b. PQR

c. QPR

d. PRQ



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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)

An \_\_\_\_\_ is the natural surrounding which helps vegetation, humans and animals get \_\_\_\_\_ and thrive on this planet called \_\_\_\_\_  
Natural environment plays a great role in the \_\_\_\_\_ of life on earth and it helps human beings, animals and other living things to grow and develop naturally. But due to some bad and \_\_\_\_\_ activities of the human beings, our environment is getting affected.

An \_\_\_\_\_ is the natural surrounding

- a. Nature
- b. Universe
- c. Environment
- d. Sky

22. 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)

An \_\_\_\_\_ is the natural surrounding which helps vegetation, humans and animals get \_\_\_\_\_ and thrive on this planet called \_\_\_\_\_. Natural environment plays a great role in the \_\_\_\_\_ of life on earth and it helps human beings, animals and other living things to grow and develop naturally. But due to some bad and \_\_\_\_\_ activities of the human beings, our environment is getting affected.

vegetation, humans and animals get \_\_\_\_\_ and

- a. Nourishment
- b. Control
- c. Rigid
- d. Parallel

23. 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)

An \_\_\_\_\_ is the natural surrounding which helps vegetation, humans and animals get \_\_\_\_\_ and thrive on this planet called \_\_\_\_\_. Natural environment plays a great role in the \_\_\_\_\_ of life on earth and

it helps human beings, animals and other living things to grow and develop naturally. But due to some bad and \_\_\_\_\_ activities of the human beings, our environment is getting affected.

and thrive on this planet called \_\_\_\_\_

- a. Earth
- b. Saturn
- c. Venus
- d. Mars

---

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)

An \_\_\_\_\_ is the natural surrounding which helps vegetation, humans and animals get \_\_\_\_\_ and thrive on this planet called \_\_\_\_\_  
Natural environment plays a great role in the \_\_\_\_\_ of life on earth and it helps human beings, animals and other living things to grow and develop naturally. But due to some bad and \_\_\_\_\_ activities of the human beings, our environment is getting affected.

Natural environment plays a great role in the \_\_\_\_\_ of life on earth

- a. Venus
- b. Extension
- c. Intention
- d. Existence

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)

An \_\_\_\_\_ is the natural surrounding which helps vegetation, humans and animals get \_\_\_\_\_ and thrive on this planet called \_\_\_\_\_  
Natural environment plays a great role in the \_\_\_\_\_ of life on earth and it helps human beings, animals and other living things to grow and develop naturally. But due to some bad and \_\_\_\_\_ activities of the human beings, our environment is getting affected.

But due to some bad and \_\_\_\_\_ activities of the human beings,

- a. Kind
- b. Selfish
- c. Illogical
- d. Logical

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## General Intelligence & Reasoning

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	4	3
2	3	2
5	6	4
23	75	?

- a. 24
- b. 27
- c. 32
- d. 36

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



- a. 4
- b. 5

c. 6

d. 3

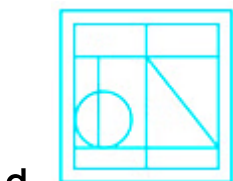
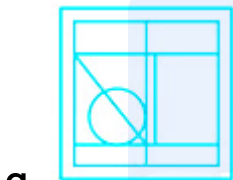
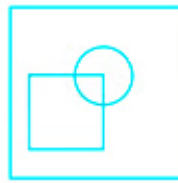
28. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as shown in the given two matrices. The columns are rows of Matrix - I are numbered from 0 to 4 and that of Matrix - 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, 'A' can be represented by 21, 87, etc., and 'N' can be represented by 32, 78, etc. Similarly, you have to identify the set for the word "GREAT". (+1, -0.25)

Matrix - I						Matrix - II					
	0	1	2	3	4		5	6	7	8	9
0	E	G	I	K	M	5	M	O	H	J	A
1	O	Q	S	U	W	6	K	D	Q	L	Z
2	Y	A	C	F	D	7	I	S	C	N	X
3	J	L	N	P	R	8	G	U	A	P	V
4	T	V	X	Z	B	9	E	W	Y	E	T

a. 85, 34, 00, 59, 99

- b. 01, 34, 95, 58, 40
- c. 01, 98, 00, 21, 99
- d. 85, 34, 95, 20, 43

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

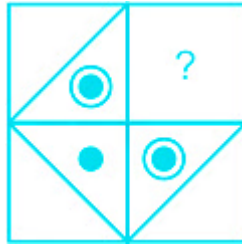


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30. Which answer figure will complete the pattern in the question figure?

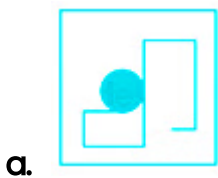
(+1, -0.25)

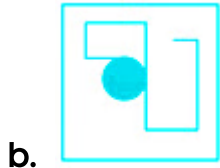


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31. If a mirror is placed on the line AB, then which of the answer figures is the right image of the given figure?

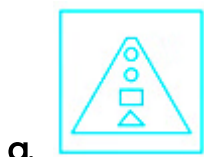
(+1, -0.25)





32. A piece of paper is folded and punched as shown below in the question figures. From the given answer figures, indicate how it will appear when opened?

(+1, -0.25)





d.

---

33. If 'z' means '+', 'v' means '÷', 'a' means '×' and 'q' means '-', then  $19 \text{ a } 4 \text{ z } 12 \text{ v } 6 = ?$  (+1, -0.25)

- a. 76
- b. 78
- c. 68
- d. 42

---

34. If  $73 \times 69 \times 43 = 185$  and  $41 \times 53 \times 68 = 162$ , then  $11 \times 31 \times 71 = ?$  (+1, -0.25)

- a. 113
- b. 123
- c. 109
- d. 117

---

35. Arrange the given words in the sequence in which they occur in the dictionary. (+1, -0.25)

- 1. Mouse
- 2. Maiden
- 3. Mailed

4. Mughal

5. Murder

a. 23145

b. 23154

c. 21354

d. 21345

---

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

1053, 351, 117, 39, 13, ?

a. 3.33

b. 3.67

c. 4.67

d. 4.33

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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)

SUT, VXW, ?, BDC

a. YZA

b. YAZ

c. XYZ

d. XZY

---

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

a. Ice

b. Cloud

c. Mist

d. Fog

---

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

a. 17 - 291

b. 13 - 167

c. 15 - 223

d. 21 - 439

---

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

a. E

b. O

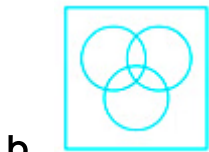
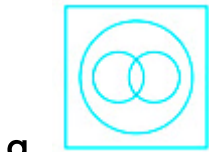
c. U

d. L

---

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

Hospital, Ward, Bed



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

Dog : Kennel :: Horse : ?

- a. Stable
- b. Shed
- c. Farm
- d. Aquarium

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

1648 : 412 :: 2864 : ?

- a. 1264
- b. 1032
- c. 832
- d. 716

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

GOD : FMA :: BAT : ?

- a. AXQ
- b. AYQ
- c. ZYP
- d. ZXP

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

HANGING

- a. HANG
- b. HING

- c. HAIR
- d. GANG

---

46. Ankit remembers his birthday is after 8th August but before 12th August. His mother remembers his birthday is after 5th August but before 10th August. On which day of August is his birthday? (+1, -0.25)

- a. 8
- b. 9
- c. 7
- d. 10

---

47. P, Q, R, S and T are standing in a row facing west. P and T are standing at ends. Q and S cannot be at middle. Which of the following can be possible correct order of standing from top to bottom? (+1, -0.25)

- a. P, S, Q, R, T
- b. S, T, Q, R, P
- c. T, Q, R, P, S
- d. T, S, R, Q, P

---

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. Some books are chairs.
- II. Some chairs are tables.

**Conclusions:**

- I. Some tables are books.
  - II. Some chairs are not 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, "ROUND" is written as "TQWPF" How is "ROBIN" written in that code language? (+1, -0.25)

- a. TQDKP
- b. TQEKP
- c. TREKQ
- d. TQEPQ

---

50. In a certain code language, "ROME" is written as "1714124" and "MINE" is written as "128134". How is "HOME" written in that code language? (+1, -0.25)

- a. 714124

b. 614124

c. 914124

d. 514124

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## Numerical Aptitude

51. Which of the following is true? (+1, -0.25)

- a.  $(6/7) > (4/5) > (3/4)$
- b.  $(4/5) > (6/7) > (3/4)$
- c.  $(6/7) > (3/4) > (4/5)$
- d.  $(3/4) > (4/5) > (6/7)$

52. What is the simplified value of  $\frac{\sqrt{7}+\sqrt{5}}{\sqrt{7}-\sqrt{5}}$ ? (+1, -0.25)

- a.  $6 + \sqrt{35}$
- b.  $6 - \sqrt{35}$
- c.  $12 + \sqrt{35}$
- d.  $12 - \sqrt{35}$

53. If  $A = 2^7 \times 5^2$  and  $B = 2^3 \times 5^6$ , then what is the value of  $A \times B$ ? (+1, -0.25)

- a.  $2^{10}5^8$
- b.  $2^{21}2^{12}$
- c.  $2^{21}5^8$
- d.  $2^{10}5^{12}$

54. Which of the following relation (s) is/are true? (+1, -0.25)

I.  $\sqrt{5} > \sqrt[3]{9}$

II.  $\sqrt[3]{9} > \sqrt{5}$

III.  $\sqrt{5} = \sqrt[3]{9}$

- a. Only I
- b. Only II
- c. Neither I nor II
- d. Either I or II

---

55. What is the simplified value of  $\frac{(5.2)^3 - (1.7)^3}{(5.2)^2 + 5.2 \times 1.7 + (1.7)^2}$ ? (+1, -0.25)

- a. 3.5
- b. 1.7
- c. 5.2
- d. 6.9

---

56. How many two-digit numbers are divisible by 11? (+1, -0.25)

- a. 8
- b. 9
- c. 10
- d. 1

57. A, B and C can complete a work in 5, 10 and 30 days respectively. In how many days A, B and C together can complete the same work? (+1, -0.25)

- a. 4
- b. 2
- c. 3
- d. 3.5

58. P, Q and R together can complete a work in 10 days. P alone can complete the work in 30 days. In how many days Q and R together can complete the same work? (+1, -0.25)

- a. 15
- b. 13
- c. 20
- d. 18

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59. What is the area (in  $\text{cm}^2$ ) of circle having circumference of 44 cm? (+1, -0.25)

- a. 154
- b. 226
- c. 203
- d. 133

60. An article having marked price of Rs. 3900 is sold at a discount of 21%. What is the selling price (in Rs) of the article? **(+1, -0.25)**

- a. 3129
- b. 3081
- c. 3243
- d. 3189

61. An article has marked price of Rs 4700. If two successive discounts of 10% and 15% are given, then what will be the selling price (in Rs.)? **(+1, -0.25)**

- a. 3407.5
- b. 3108
- c. 3595.5
- d. 3290

62. If  $x : y = 3 : 5$ , then what is the value of  $(2x + 5y) : (2y - 3x)$ ? **(+1, -0.25)**

- a. 31 : 1
- b. 19 : 1
- c. 19 : 6
- d. 31 : 5

63. The ratio of the present ages of Mohan and Sohan is 2 : 3 and 10 years from now, the ratio will get changed to 3 : 4. What is the present age (in years) of Mohan? (+1, -0.25)
- a. 10
  - b. 15
  - c. 20
  - d. 30
- 

64. What is the average of first 8 odd numbers? (+1, -0.25)
- a. 7
  - b. 10
  - c. 9
  - d. 8
- 

65. If the cost price of 6 articles is equal to the selling price of 9 articles, then what is the loss percentage? (+1, -0.25)
- a. 25
  - b. 33.33
  - c. 50
  - d. 20
-

66. A man gains 50% by selling an article at a certain price. If he sells the article at half the price, then what is the loss percentage? (+1, -0.25)

- a. 25
  - b. 50
  - c. 75
  - d. 37.5
- 

67. If the length of a rectangle is increased by 20%, then by how much percent its breadth should be reduced so that the area remains the same? (+1, -0.25)

- a. 10
  - b. 20
  - c. 25
  - d. 16.66
- 

68. 1224 is what percent of 4800? (+1, -0.25)

- a. 24.5
  - b. 25
  - c. 24
  - d. 25.5
-



69. If speed of boat in still water is 10 km/hr and the speed of stream is 2 km/hr, then what is the upstream and downstream speeds (in km/hr) of the boat? (+1, -0.25)

- a. 12, 16
- b. 6, 12
- c. 8, 12
- d. 6, 14

70. A train is 400 metres long and running at a speed of 60 km/hr. How much time (in seconds) will it take to cross a platform 1000 metres long? (+1, -0.25)

- a. 84
- b. 72
- c. 96
- d. 108

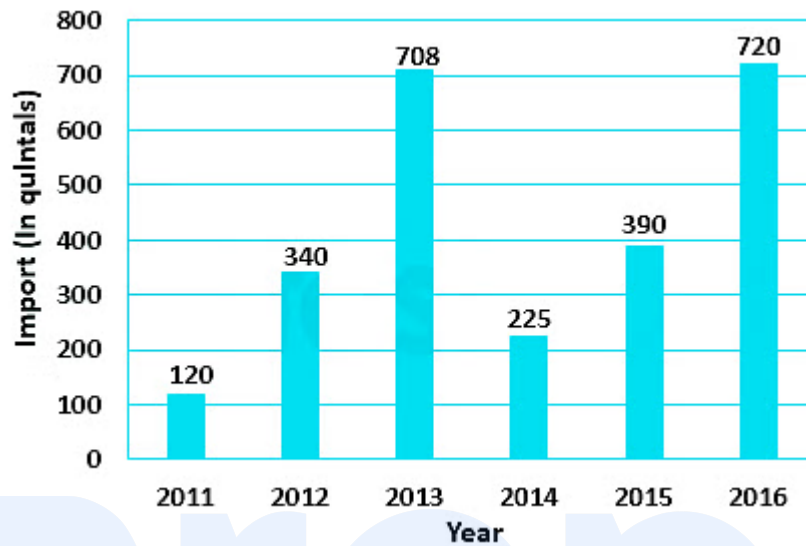
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71. Rs. 2200 are invested in a scheme of compound interest. If the rate of interest is 10% per annum, then what is the interest earned (in Rs.) in 2 years? (+1, -0.25)

- a. 462
- b. 628
- c. 576
- d. 682

72. Direction: The bar chart given below shows the import of Soybean (in quintals) for the year 2011 to 2016.

(+1, -0.25)

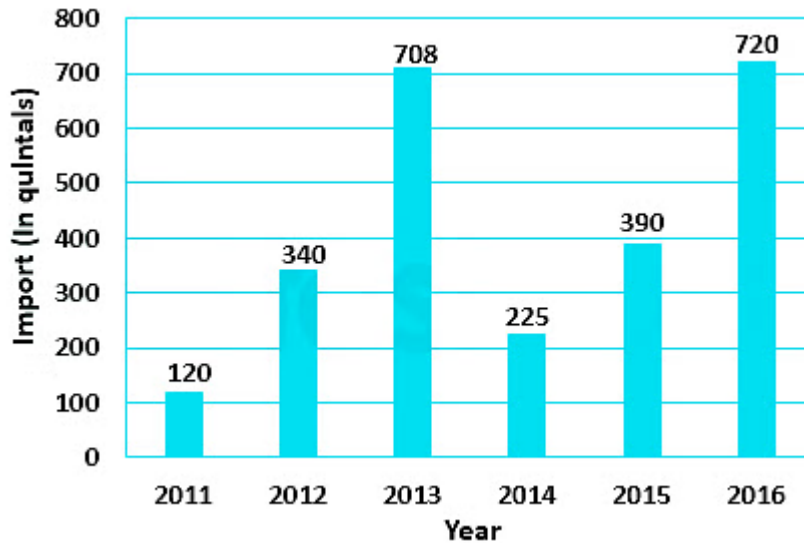


What is the average import (in quintals) of Soybean for the given years?

- a. 521.33
- b. 366.66
- c. 417.16
- d. 471.16

73. Direction: The bar chart given below shows the import of Soybean (in quintals) for the year 2011 to 2016.

(+1, -0.25)

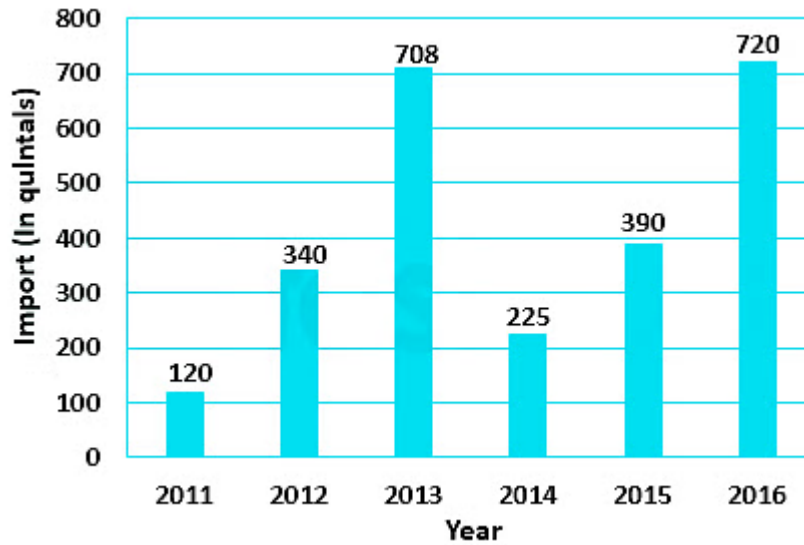


What is the percentage increase in Soybean import in the year 2012 in comparison to year 2011?

- a. 179.66
- b. 183.33
- c. 283.33
- d. 135.29

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74. Direction: The bar chart given below shows the import of Soybean (in quintals) for the year 2011 to 2016. (+1, -0.25)

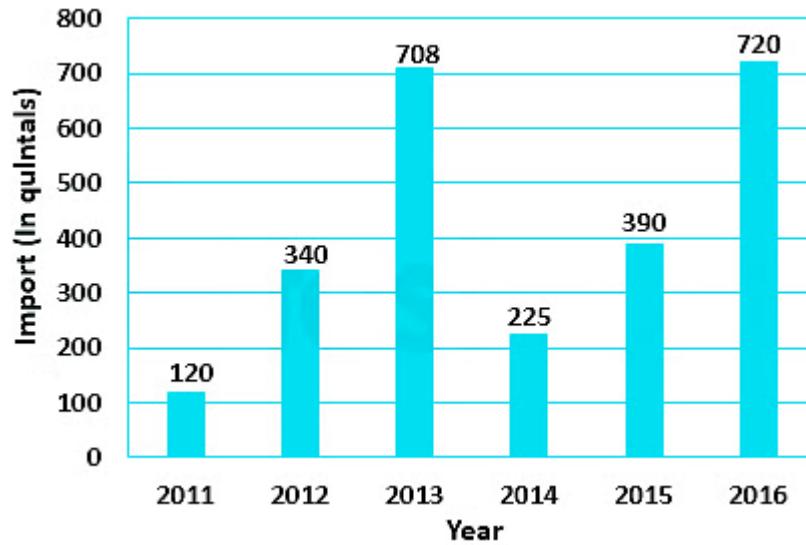


In how many years the import of Soybean is more than the average import of Soybean for the given years?

- a. 4
- b. 1
- c. 3
- d. 2

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75. Direction: The bar chart given below shows the import of Soybean (in quintals) for the year 2011 to 2016. (+1, -0.25)



The import of Soybean in the year 2015 is what percent of the import of Soybean in year 2012?

- a. 116.66
- b. 87.17
- c. 114.7
- d. 14.7

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## General Awareness

76. Demand in Economics means \_\_\_\_\_ . (+1, -0.25)

- a. Aggregate demand
  - b. Market demand
  - c. Individual demand
  - d. Demand backed by purchasing power
- 

77. Which of the following is/are required to get more income by the people? (+1, -0.25)

- a. Better price their produce
  - b. Continuous job
  - c. Better wages
  - d. All options are correct
- 

78. According to which fundamental right 'All persons are equal before law'? (+1, -0.25)

- a. Right to freedom
  - b. Cultural and Educational Rights
  - c. Right to Equality
  - d. Right against Exploitation
-

79. Directive principles of state policy are enumerated in which part of Indian Constitution? **(+1, -0.25)**
- a. Part I
  - b. Part II
  - c. Part III
  - d. Part IV
- 

80. In last years of his reign Akbar was distracted by the rebellion of Prince Salim, The future emperor \_\_\_\_\_ . **(+1, -0.25)**
- a. Aurangzeb
  - b. Jahangir
  - c. Shahjahan
  - d. Bahadur Shah
- 

81. In 1824 the sepoys refused to go to which place to fight for the East India Company by sea route? **(+1, -0.25)**
- a. United Kingdom
  - b. Burma
  - c. France
  - d. Dutch
-

82. What is the season during summer solstice in the Northern Hemisphere? (+1, -0.25)

- a. Winter
  - b. Summer
  - c. Spring
  - d. Autumn
- 

83. Which mountains separate Asia from Europe? (+1, -0.25)

- a. Himalayas
  - b. Andes
  - c. Ural
  - d. Rocky
- 

84. Which of the following prevents collapsing of trachea? (+1, -0.25)

- a. Diaphragm
  - b. Ribs
  - c. Cartilaginous discs
  - d. Muscles
- 

85. The tricuspid valve occurs between the \_\_\_\_\_ . (+1, -0.25)

- a. Right atrium and right ventricle



- b. Pulmonary aorta
  - c. Corotico-systemic aorta and left ventricle
  - d. Left ventricle
- 

86. Which category of compound is the most concentrated energy source? (+1, -0.25)

- a. Fats
  - b. Starch
  - c. Proteins
  - d. Vitamins
- 

87. The focal length of a plane mirror is ----- (+1, -0.25)

- a. positive
  - b. negative
  - c. zero
  - d. infinity
- 

88. What constitutes current in a metal wire? (+1, -0.25)

- a. electrons
- b. protons
- c. neutrons

d. None of these

---

89. What is UBUNTU?

(+1, -0.25)

- a. Operating System
  - b. Programming Languages
  - c. Microprocessor
  - d. None of these
- 

90. Isotopes of an element do not have \_\_\_\_\_.

(+1, -0.25)

- a. Same number of electrons
  - b. Same physical properties
  - c. Same chemical properties
  - d. Same number of protons
- 

91. Gold is alloyed with which metal to make it harder?

(+1, -0.25)

- a. Cu
  - b. Sn
  - c. Na
  - d. C
- 

92. What are the substances which contaminate the air called?

(+1, -0.25)

- a. Smoke
  - b. Air pollutants
  - c. Dust
  - d. Exhausts
- 

93. Pradhan Mantri Jeevan Jyoti Bima Yojana is available to all citizens between the ages of 18 to \_ \_ \_ \_ \_ years. (+1, -0.25)

- a. 50
  - b. 60
  - c. 75
  - d. 80
- 

94. Who invented internet? (+1, -0.25)

- a. Steve Jobs
  - b. Jaap H aartsen
  - c. Jan Ko urn
  - d. Vint Cerf
- 

95. 'Skeet' is associated with which sport? (+1, -0.25)

- a. Running
- b. Cycling

- c. Shooting
  - d. Swimming
- 

96. Mohiniattam is a classical dance form of which state? (+1, -0.25)

- a. Kerala
  - b. Goa
  - c. Maharashtra
  - d. Karnataka
- 

97. Who won the 2016 Sahitya Akademi Award for Hindi? (+1, -0.25)

- a. Mridula Garg
  - b. Amar Kant
  - c. Nasira Sharma
  - d. Kamleshwar
- 

98. Who is the author of the book named "Not Just an Accountant"? (+1, -0.25)

- a. Raghuram Rajan
  - b. Vinod Rai
  - c. Achal Kumar Jyoti
  - d. C. S. Karnan
-

99. Association of South East Asian Nations (ASEAN) is a group of 10 South Asian nations which came into existence after \_ \_ \_ \_ declaration. (+1, -0.25)

- a. Vienna
- b. Kyoto
- c. Bangkok
- d. Singapore

100. Which dam is called the Afghan-India Friendship Dam? (+1, -0.25)

- a. Sawalkot
- b. Barighat
- c. Salma
- d. Upper Karnali

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## Answers

1. Answer: c

**Explanation:**

The error is in 3). Since **to** has been used, it should be **read**, not *reading*. Hence, Option 3) is the correct answer.

---

2. Answer: c

**Explanation:**

The sentence does not have any error.

---

3. Answer: c

**Explanation:**

Exasperate = irritate.

Embitter = to make someone angry.

Elated = happy.

Enamoured = to be filled with love.

Naturally, when a child succeeds, the parent is happy. Hence, Option 3) *Elated* is the correct answer.

---

4. Answer: a

**Explanation:**

Come across = to find by chance. This fits in perfectly in the sentence since she is talking about how she's never seen such a good book before and therefore, Option 1) is the correct answer.

You do not *see into* a book. You read it. Rule out 4)

---

**5. Answer: b****Explanation:**

Pioneer = develop or be the first to use or apply (a new method, area of knowledge, or activity). Hence, Option 2) *Developer* (a person or thing that develops something) is the correct answer.

---

**6. Answer: d****Explanation:**

Ethical = morally correct. Hence, Option 4) *Equitable* (*fair*) is a synonym.

---

**7. Answer: a****Explanation:**

Scatter = separate and move in different directions. Hence, Option 1) *Disperse* (*distribute or spread out in a wide area*) is a synonym.

Reconcile = restore friendly relations.

8. Answer: a

**Explanation:**

Weird = not normal; awkward. Hence, Option 1) *Usual (normal)* is an antonym.

Creepy = scary.

---

9. Answer: b

**Explanation:**

Charity = to help someone by giving them something. Hence, Option 2) *Stealing* is an antonym.

---

10. Answer: d

**Explanation:**

Hostile = angry; unfriendly. Hence, Option 4) *Gentle* is an antonym.

Alien = unfamiliar; foreign.

---

11. Answer: c

**Explanation:**

Fool's paradise = a state of happiness based on a person's not knowing about or denying the existence of potential trouble. Hence, Option 3) *Being happy for foolish reasons* is the correct answer.



12. Answer: c

**Explanation:**

Golden mean = a middle way with neither an excess nor a deficiency. Hence, Option 3) is the correct answer.

---

13. Answer: c

**Explanation:**

*To come* can also be referred to as *making an appearance*. Hence, Option 3) *Appear* is an appropriate choice.

---

14. Answer: a

**Explanation:**

The only word that makes any logical sense when used alone and followed by a comma is *However* in this case. Hence, Option 1) is the correct answer.

---

15. Answer: b

**Explanation:**

The correct answer is "Harbinger"

★ Key Points

- Let's see the meanings of the given words-

- **Estimation**- a rough calculation of the value, number, quantity, or extent of something. (किसी चीज के मूल्य, संख्या, मात्रा या सीमा की किसी न किसी गणना।)
  - **Harbinger**- a person or thing that announces or signals the approach of another. or a forerunner of something. (एक व्यक्ति या चीज जो दूसरे के दृष्टिकोण की घोषणा या संकेत करती है।)
  - **Endemic**- regularly found among particular people or in a certain area. (नियमित रूप से विशेष लोगों के बीच या किसी निश्चित क्षेत्र में पाया जाता है।)
  - **Prodigy**- a young person with exceptional qualities or abilities. (असाधारण गुणों या क्षमताओं वाला एक युवा।)
- Hence, according to the meanings of the given words, the correct answer is **Option 2 i.e. "Harbinger"**

---

16. **Answer: c**

**Explanation:**

Summon = to order (someone) to be present.

Remand = to put a criminal into custody.

Option 3) *Remand* is the correct answer.

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---

17. **Answer: b**

**Explanation:**

The correct spelling is 2) *Celebrate*.

---

18. **Answer: c**

**Explanation:**

The correct spelling is 2) *Dialogue*.

---

**19. Answer: b**

**Explanation:**

*Dance and laughter* => plural => followed by **are**. Q is first in sequence. Hence, Option 2) *QPR* is the correct answer.

*Dance and laughter are the best, natural and easily approachable doors to attaining a peaceful mindset*

---

**20. Answer: b**

**Explanation:**

*That to* will not be grammatically correct => R can't be the first in sequence. Rule out 1). In P, *when* clause is used. So, the main subject **you**, must find a connection to a secondary statement immediately after P. Hence, Q must follow P. Hence, Option 2) *PQR* is the correct answer.

*Thinking that you know when, in fact, you do not is a bad mistake, to which we are all prone.*

---

**21. Answer: c**

**Explanation:**

The blank follows **an** => *nature, universe* and *sky* are all ruled out. Hence, Option 3) *Environment* is the correct answer.

Note: *Universe* – even though it starts with a vowel, it's pronunciation starts with -y. And therefore, we do not use **an** before universe.

---

22. Answer: a

**Explanation:**

Nourishment = provide with the food or other substances necessary for growth, health, and good condition. Growing requires nourishment and therefore, Option 1) *Nourishment* is the correct answer.

---

23. Answer: a

**Explanation:**

The only planet with life is our planet 4) *Earth*.

---

24. Answer: d

**Explanation:**

Natural environment is the main reason why **there is presence of life on Earth** i.e life **exists** . Hence, Option 4) *Existence* is the correct answer.

---

25. Answer: b

**Explanation:**

Human beings act only for their own benefit and are destroying the environment acting this way. They are being *selfish* . Hence, Option 2) is the correct answer.

26. Answer: b

Explanation:

The 1<sup>st</sup> column written as

$$(2 \times 2 \times 5) + 3 = 23$$

2<sup>nd</sup> column written as

$$(4 \times 3 \times 6) + 3 = 75$$

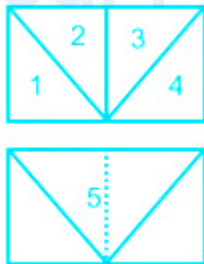
3<sup>rd</sup> column can be written as

$$(3 \times 2 \times 4) + 3 = 27$$

Thus, 27 is the correct answer.

27. Answer: b

Explanation:



Therefore, there are 5 triangles.

28. Answer: a

**Explanation:**

1) 85, 34, 00, 59, 99  $\Rightarrow$  G, R, E, A, T

2) 01, 34, 95, 58, 40  $\Rightarrow$  G, R, E, J, T

3) 01, 98, 00, 21, 99  $\Rightarrow$  G, E, E, A, T

4) 85, 34, 95, 20, 43  $\Rightarrow$  G, R, E, Y, Z

Hence, "85, 34, 00, 59, 99" is a set of number which represent word "GREAT"

Therefore, 85, 34, 00, 59, 99 is the answer.

29. Answer: c

**Explanation:**



The question figure is embedded in this figure.

30. Answer: a

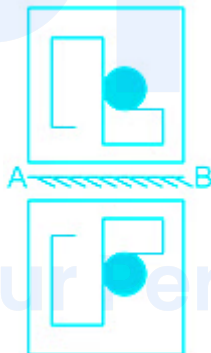
Explanation:



The first figure completes the pattern because the straight line touches the vertex from both ends and the dot is in the middle of the triangle.

31. Answer: d

Explanation:



Hence, image of option 4) is the answer.

32. Answer: a

Explanation:



is the correct answer because the circle is punched at a point where the paper is folded twice. Hence, when we unfold the entire paper, we will obtain two circles, one rectangle and a triangle.

---

**33. Answer: b**

**Explanation:**

'z' means '+', 'v' means '÷', 'a' means '×' and 'q' means '-'.

Therefore,  $19 a 4 z 12 v 6$  will be  $19 \times 4 + 12 \div 6 = 76 + 2 = 78$ .

---

**34. Answer: a**

**Explanation:**

$73 \times 69 \times 43 = 185$  and  $41 \times 53 \times 68 = 162$  can be written as

$$73 + 69 + 43 = 185$$

$$41 + 53 + 68 = 162$$

Similarly,  $11 \times 31 \times 71$  can be written as

$$11 + 31 + 71 = 113.$$

Therefore, 113 is the correct answer.

---

**35. Answer: a**

**Explanation:**

2. Maiden



3. Mail ed

1. Mo use

4. Mug hal

5. Mur der

Therefore, the correct dictionary order would be 23145.

---

36. Answer: d

**Explanation:**

$$1053/3 = 351$$

$$351/3 = 117$$

$$117/3 = 39$$

$$39/3 = 13$$

$$13/3 = 4.33$$

Clearly, 4.33 is the nearest possible answer.

---

37. Answer: b

**Explanation:**

Consider 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.....

In SUT, VXW and BDC, the position of second and third letter has been changed in each case and the initial letters are in ascending order from S to Z.

Therefore, the pattern will be SUT, VXW, **YAZ**, BDC.

---

38. Answer: a

**Explanation:**

Cloud, Mist and Fog are intangible. On the contrary, ice is a tangible object.

Therefore, Ice is the odd word among the given alternatives.

---

39. Answer: a

**Explanation:**

$$13 - 167 = 13 - (13^2 - 2)$$

$$17 - 291 = 17 - (17^2 + 2)$$

$$15 - 223 = 15 - (15^2 - 2)$$

$$21 - 439 = 21 - (21^2 - 2)$$

In all the cases, the second number is an outcome of subtraction. But in the second case, it is an outcome of addition.

Therefore, 17 - 291 is the correct answer.

---

40. Answer: d

**Explanation:**

E, O and U are vowels. But, L is a consonant.

Therefore, L is the odd one out.

---

41. Answer: c

**Explanation:**

A bed is situated inside a ward and a ward is inside a hospital. Hence, hospital will be the largest set containing the smaller set ward, which further will contain the smallest set bed.

Thus,



is the answer.

---

42. Answer: a

**Explanation:**

A dog lives in a kennel. Similarly, a horse lives in a stable.

Hence, the answer will be stable.

---

43. Answer: d

**Explanation:**

1648 can be written as

16 48

↓↓

$$4 \times 44 \times 12$$

Similarly, 2864 can be written as

$$28 \ 64$$

↓↓

$$4 \times 74 \times 16$$

Therefore, 716 is the correct answer.

**44. Answer: b**

**Explanation:**

Consider 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 and the numbers corresponding to their positions,



Similarly,



Therefore, AYQ is the required answer.

**45. Answer: c**

**Explanation:**

In HANGING, there is no 'R'.

Therefore, HAIR cannot be formed from HANGING.

---

**46. Answer: b**

**Explanation:**

According to Ankit's memory, his birthday is either on **9<sup>th</sup> Aug**, 10<sup>th</sup> Aug or 11<sup>th</sup> Aug.

According to his mother's memory, his birthday is either on 6<sup>th</sup> Aug, 7<sup>th</sup> Aug, 8<sup>th</sup> Aug or **9<sup>th</sup> Aug**.

The only common date is 9<sup>th</sup> Aug.

Therefore, the answer will be 9.

---

**47. Answer: d**

**Explanation:**

West T (Ends)

S

R

Q

P (Ends)

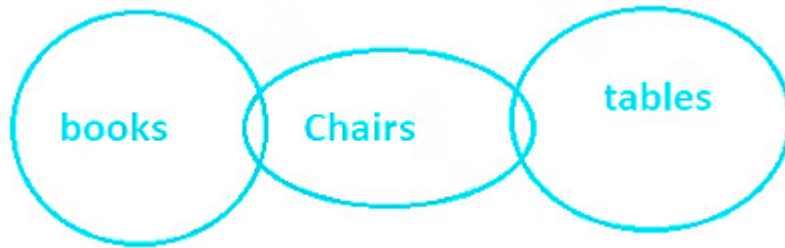
Clearly, the pattern T, S, R, Q, P is possible from the above given statements.

---

**48. Answer: d**

**Explanation:**

We draw the least possible Venn diagram according to the given conditions :



Conclusions:

I. Some tables are books → It's possible but not definite. Hence, false.

II. Some chairs are not books → It's possible but not definite. Hence, false.

Therefore, none of the conclusions is true.

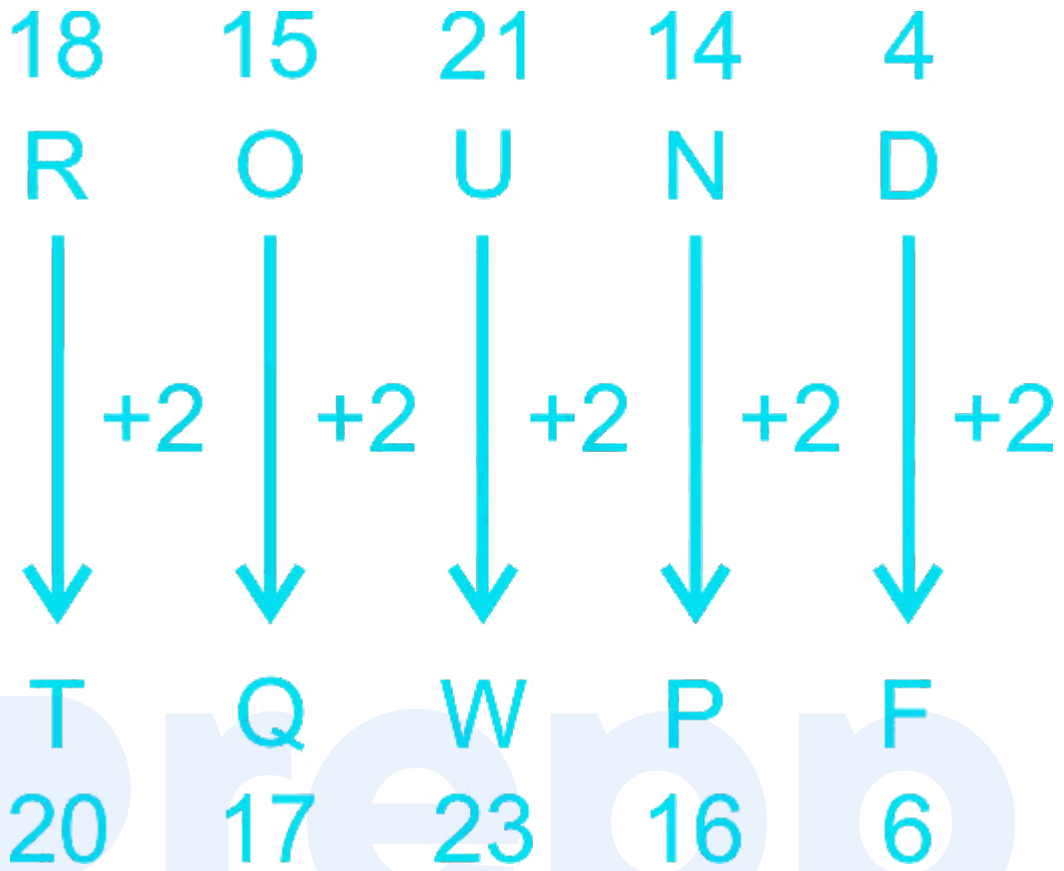
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49. Answer: a

Explanation:

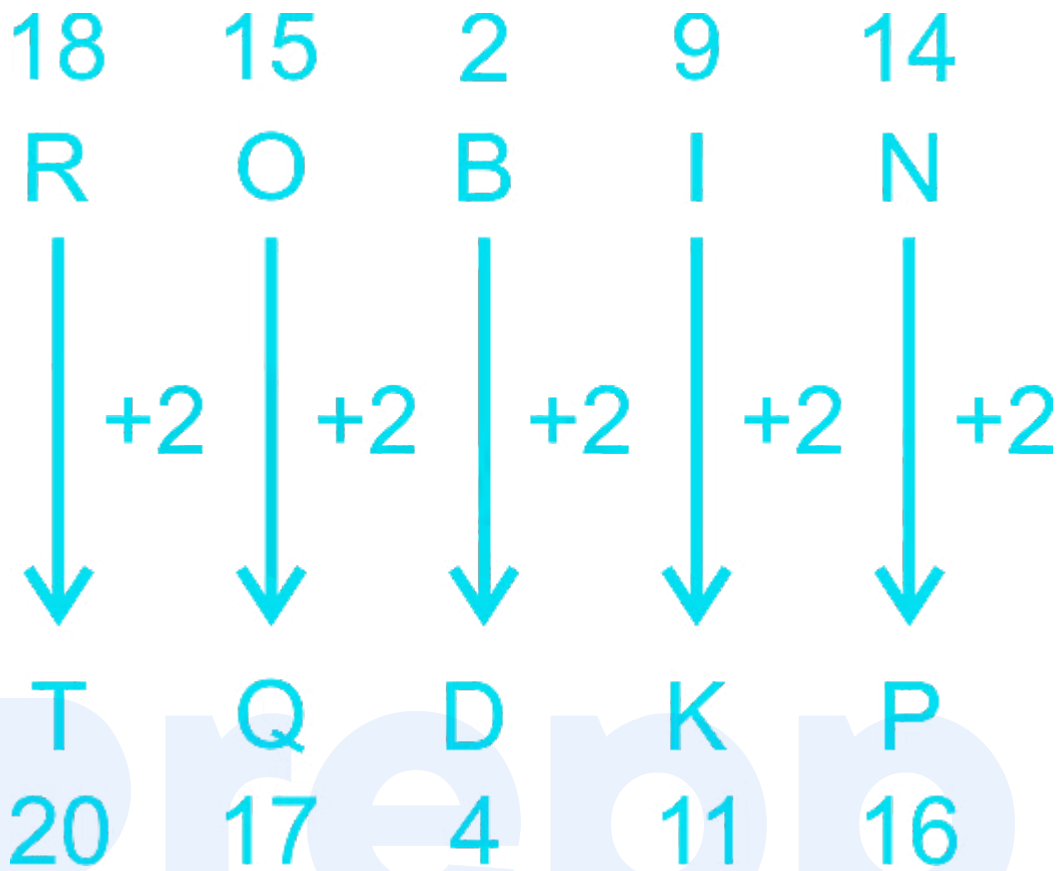
Consider the position of letters in the English Alphabet A B C D E F G H I J K L M N O P  
Q R S T U V W X Y Z

ROUND can be written as



Similarly, ROBIN can be written as

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Therefore, TQDKP is the correct answer.

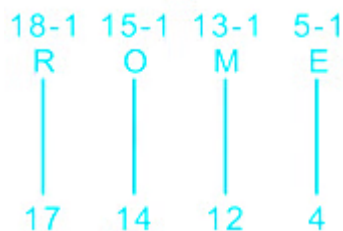
50. Answer: a

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### Explanation:

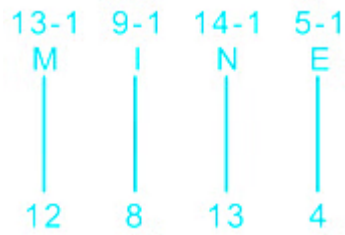
Consider the English Alphabet A B C D E F G H I J K L M N O P Q R S T U V W X Y Z and the numbers corresponding to their positions,

ROME and MINE can be written as

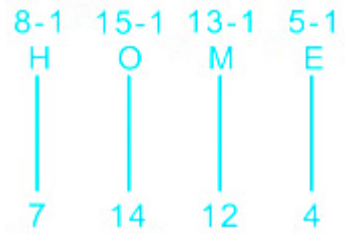


and





Similarly, HOME can be written as



Therefore, 714124 is correct answer.

51. Answer: a

Explanation:

$$6/7 = 0.85$$

$$4/5 = 0.8$$

$$3/4 = 0.75$$

Here,  $0.85 > 0.8 > 0.75$

Hence,  $6/7 > 4/5 > 3/4$  is true.

52. Answer: a

Explanation:

Expression:  $\frac{\sqrt{7}+\sqrt{5}}{\sqrt{7}-\sqrt{5}}$

Rationalising the given expression:

$$\Rightarrow \frac{\sqrt{7}+\sqrt{5}}{\sqrt{7}-\sqrt{5}} = \frac{\sqrt{7}+\sqrt{5}}{\sqrt{7}-\sqrt{5}} \times \frac{\sqrt{7}+\sqrt{5}}{\sqrt{7}+\sqrt{5}}$$

$$\Rightarrow \frac{\sqrt{7}+\sqrt{5}}{\sqrt{7}-\sqrt{5}} = \frac{(\sqrt{7}+\sqrt{5})^2}{(\sqrt{7})^2 - (\sqrt{5})^2}$$

$$\Rightarrow \frac{\sqrt{7}+\sqrt{5}}{\sqrt{7}-\sqrt{5}} = \frac{7+5+2\sqrt{35}}{7-5} = \frac{12+2\sqrt{35}}{2} = 6 + \sqrt{35}$$

**53. Answer: a**

**Explanation:**

Given,

$$A = 2^7 \times 5^2 \text{ and } B = 2^3 \times 5^6$$

$$\Rightarrow A \times B = 2^7 \times 5^2 \times 2^3 \times 5^6$$

$$\Rightarrow A \times B = 2^{(7+3)} \times 5^{(2+6)}$$

$$\Rightarrow A \times B = 2^{10} \times 5^8$$

Your Personal Exams Guide

**54. Answer: a**

**Explanation:**

Let  $X = \sqrt{5}$  and  $Y = \sqrt[3]{9}$

$$X = \sqrt{5} \quad \text{-----(1)}$$

By squaring above equation, we get

$$X^2 = 5 \quad \text{-----(2)}$$

Now, by cubing the above equation,

$$(X^2)^3 = X^6 = 125$$

Similarly,

$$Y = \sqrt[3]{9}$$

By cubing above equation, we get

$$Y^3 = 9 \quad \text{-----(2)}$$

Now, by squaring the above equation,

$$(Y^3)^2 = Y^6 = 81$$

$$\therefore X^6 > Y^6$$

Hence,  $X > Y$

$$\therefore \sqrt{5} > \sqrt[3]{9}$$

55. Answer: a

**Explanation:**

Expression:  $\frac{(5.2)^3 - (1.7)^3}{(5.2)^2 + 5.2 \times 1.7 + (1.7)^2}$

We know that,

$$a^3 - b^3 = (a - b)(a^2 + b^2 + ab)$$

$$\Rightarrow \frac{(5.2)^3 - (1.7)^3}{(5.2)^2 + 5.2 \times 1.7 + (1.7)^2} = \frac{(5.2 - 1.7)((5.2)^2 + 5.2 \times 1.7 + (1.7)^2)}{(5.2)^2 + 5.2 \times 1.7 + (1.7)^2}$$

$$\Rightarrow \frac{(5.2)^3 - (1.7)^3}{(5.2)^2 + 5.2 \times 1.7 + (1.7)^2} = (5.2 - 1.7) = 3.5$$

56. Answer: b

**Explanation:**

The two-digit numbers which are divisible by 11 are 11, 22, 33, 44, 55, 66, 77, 88, 99.

Hence, there are 9 two-digit number which are divisible by 11.

---

**57. Answer: c****Explanation:**

A alone can do a work = 5 days

A's one day's work =  $\frac{1}{5}$

B alone can do the work = 10 days

B's one-day's work =  $\frac{1}{10}$

C alone can do the work = 30 days

C's one-day's work =  $\frac{1}{30}$

A, B and C together can do the work in,

$(A + B + C)$ 's one-day's work =  $(\frac{1}{5} + \frac{1}{10} + \frac{1}{30}) = \frac{(6 + 3 + 1)}{30} = \frac{10}{30} = \frac{1}{3}$

Hence, A + B + C can complete the whole work in 3 days.

---

**58. Answer: a****Explanation:**

Given,

(P + Q + R) can complete a work in 10 days.

⇒ (P + Q + R)'s one day work =  $1/10$

P alone can complete the work in 30 days.

⇒ P's one day work =  $1/30$

⇒ (Q + R)'s one day work =  $(1/10 - 1/30) = (3 - 1)/30 = 2/30 = 1/15$

Q + R can complete the same work in 15 days.

---

59. Answer: a

**Explanation:**

**Given:**

Circumference of the circle = 44 cm.

**Formula Used:**

⇒ Circumference of the circle =  $2\pi r$ .

⇒ Area of the circle =  $\pi r^2$ .

**Calculation:**

⇒ Circumference of the circle = 44

⇒  $2\pi r = 44$

⇒  $2 \times (22/7) \times r = 44$

⇒  $r = 7$  cm.

Now,

Area of the circle =  $(22/7) \times 7 \times 7 = 154$  cm<sup>2</sup>.

---

60. Answer: b

**Explanation:**

Given,

$$M.P = \text{Rs. } 3900$$

$$\text{Discount} = 21\%$$

$$S.P = M.P - \text{Discount}$$

$$S.P = 3900 - 3900 \times 21/100$$

$$S.P = 3900 \times (79/100)$$

$$S.P = \text{Rs. } 3081$$

---

61. Answer: c

**Explanation:**

Let the marked price of article be Rs.4700

After giving two successive discounts of 10% and 15%, the selling price will be,

$$\Rightarrow S.P = 4700 \times \frac{(100-10)}{100} \times \frac{(100-15)}{100}$$

$$\Rightarrow S.P = 4700 \times \frac{(90)}{100} \times \frac{(85)}{100}$$

$$\Rightarrow S.P = 3595.5$$

Hence, the marked price of an article = Rs. 3595.5

---

62. Answer: a

### Explanation:

Let  $x$  and  $y$  be  $3a$  and  $5a$

$$\Rightarrow \frac{2x+5y}{2y-3x} = \frac{2 \times 3a + 5 \times 5a}{2 \times 5a - 3 \times 3a}$$

$$\Rightarrow \frac{2x+5y}{2y-3x} = \frac{6a+25a}{10a-9a} = \frac{31a}{1a} = \frac{31}{1}$$

---

### 63. Answer: c

### Explanation:

Given:

The ratio of the present ages of Mohan and Sohan is  $2 : 3$

After 10 years from now, the ratio will be  $3 : 4$

Calculation:

Let the present age of Mohan and Sohan be  $2x$  and  $3x$

$$\Rightarrow \frac{2x+10}{3x+10} = \frac{3}{4}$$

$$\Rightarrow 8x + 40 = 9x + 30$$

$$\Rightarrow 9x - 8x = 40 - 30$$

$$\Rightarrow x = 10$$

Hence, the present age of Mohan =  $2x = 20$  years

$\therefore$  The correct option is 3)

---

### 64. Answer: d

**Explanation:**

We know that,

The sum of first 'n' odd number =  $n^2$

⇒ The sum of first 8 odd number =  $8^2$

⇒ The sum of first 8 odd number = 64

Average of first 8 odd number =  $64/8 = 8$

**65. Answer: b****Explanation:**

Let the cost price of 1 article be Rs. 1

The cost price of 6 articles = Rs.6

Given,

The cost price of 6 articles = The selling price of 9 articles

∴ The selling price of 9 articles = Rs.6

And the cost price of 9 article = Rs.9

We know that,

$$\text{Loss\%} = \frac{C.P - S.P}{C.P} \times 100 = \frac{9-6}{9} \times 100 = \frac{100}{3} = 33.33\%$$

**66. Answer: a****Explanation:**



Let the cost price of an article be Rs.  $x$

Gain = 50%

S.P = C.P + Gain

$$\Rightarrow \text{S.P} = x + 50x/100 = 150x/100 = 3x/2$$

If he sells the article at half the price, the selling price will be

$$\text{S.P} = 3x/4$$

$$\text{Loss\%} = \frac{C.P - S.P}{C.P} \times 100 = \frac{x - 3x/4}{x} \times 100 = \frac{x}{4x} \times 100 = 25\%$$

67. Answer: d

**Explanation:**

**Given:**

Length of the rectangle increased = 20%

Area of the rectangle remained unchanged.

**Formula Used:**

$$\Rightarrow \text{Area of the rectangle} = L \times B$$

**Calculation:**

$$\Rightarrow \text{Area of the rectangle} = L \times B$$

$$\Rightarrow \text{New Length of the rectangle} = L + 0.2L = 1.2L$$

Now,

Let the new breadth of the rectangle be 'Y'.

$$\Rightarrow \text{Area of the rectangle} = 1.2L \times Y$$

$$\Rightarrow L \times B = 1.2L \times Y$$

$$\Rightarrow Y = (10/12) \times B$$

$$\Rightarrow Y = (5/6) \times B.$$

If,

$$\Rightarrow \text{Old Breadth} = 6x, \text{ then New Breadth} = 5x$$

$$\Rightarrow \text{Change in Breadth} = x$$

$$\therefore \text{Percentage change in Breadth} = (x/6x) \times 100 = 16.66\%.$$

68. Answer: d

Explanation:

$$\Rightarrow 1224 \text{ is } x\% \text{ of } 4800$$

$$\Rightarrow 1224 = x\% \times 4800$$

$$\Rightarrow \frac{1224 \times 100}{4800} = x$$

$$\Rightarrow x = \frac{1224 \times 100}{4800} = 25.5\%$$

69. Answer: c

Explanation:

The speed of boat in still water =  $u = 10$  km/hr.

The speed of current =  $v = 2$  km/hr

$\Rightarrow$  The downstream of boat =  $u + v = 12$  km/hr

$\Rightarrow$  The upstream of boat =  $u - v = 10 - 2 = 8$  km/hr

70. Answer: a

**Explanation:**

Given, The length of train = 400 metres

Length of platforms = 1000 metres

Speed of train = 60 km/hr =  $60 \times (5/18) = 50/3$

Time = Distance/Speed

$$\Rightarrow \text{Time} = \frac{1000+400}{50/3} = 84 \text{ seconds}$$

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71. Answer: a

**Explanation:**

We know that,

$$\text{Amount} = P \left(1 + \frac{r}{100}\right)^t$$

$$\Rightarrow \text{Amount} = 2200 \left(1 + \frac{10}{100}\right)^2$$

$$\Rightarrow \text{Amount} = 2200 \left(\frac{11}{10}\right)^2 = 2662$$

$$\Rightarrow \text{C.I} = \text{Amount} - \text{Principal} = 2662 - 2200 = 462$$

Hence, Compound interest = Rs. 462

---

72. Answer: c

**Explanation:**

The sum of import of soybean for all the years =  $120 + 340 + 708 + 225 + 390 + 720 = 2503$

Average =  $2503/6 = 417.16$

---

**73. Answer: b**

**Explanation:**

The import of soybean in the year 2011 = 120 quintals

The import of soybean in the year 2012 = 340 quintals

Percentage increase =  $(340 - 120) \times 100/120 = 183.33\%$

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**74. Answer: d**

**Explanation:**

The average import of soybean for all the years = 417.16

The import of soybean for 2011 = 120 quintals

The import of soybean for 2012 = 340 quintals

The import of soybean for 2013 = 708 quintals

The import of soybean for 2014 = 225 quintals

The import of soybean for 2015 = 390 quintals

The import of soybean for 2016 = 720 quintals

In 2013 and 2016, the import of soybean is more than the average import.

---

75. Answer: c

**Explanation:**

The import of soybean for 2015 = 390 quintals

The import of soybean for 2012 = 340 quintals

$$\text{Required \%} = \frac{390}{340} \times 100 = 114.7\%$$

76. Answer: d

**Explanation:**

The correct answer is **Demand backed by purchasing power** .

★ Key Points

- **Demand** is an economic principle that describes a consumer's desire and willingness to pay a price for a specific good or service.
- Purchasing power is an economic theory relating to an individual's or business' ability to buy goods or services in the economic marketplace.
- Thus in economics Demand is Backed by Purchasing Power.

77. Answer: d

**Explanation:**

- Income is the consumption and savings opportunity gained by an entity within a specified timeframe, which is generally expressed in monetary terms.
- However, for households and individuals, income is the sum of all the wages, salaries, profits, interests, payments, rents, and other forms of earnings received in a given period of time .

- Thus it depends on all the factors mentioned above.
- 

**78. Answer: c**

**Explanation:**

The correct answer is Right to Equality.

- **Right to Equality** is the fundamental right given to the people of India.
  - **Article 14** says that the state shall not deny to any person equality before the law and equal protection of the laws within the territory of India.
  - This provision **confers rights on all persons whether citizens or foreigners**.
  - Other articles under Right to equality –
    - **Article 15** – Prohibition of discrimination on grounds of religion, race, caste, sex or place of birth.
    - **Article 16** – Equality of opportunity in matters of public employment.
    - **Article 17** – Abolition of untouchability and prohibition of its practice.
    - **Article 18** – Abolition of titles except military and academic.
  - The concept of '**equality before law**' is an element of the concept of the concept of 'Rule of Law' propounded by A .V. **Dicey** , the British jurist.
  - **Article 19 to 22** describes Right to freedom.
  - **Article 29 and 30** describes Cultural and educational rights.
  - **Article 23 and 24** describes Right against exploitation.
- 

**79. Answer: d**

**Explanation:**

The correct answer is Part IV.

- **Directive Principle of State Policy** is enumerated in **Part IV** of the Constitution.
- It is mentioned under **Articles 36 to 51**.

- The idea is borrowed from the **Irish Constitution of 1937**, which had copied it from the Spanish Constitution.
- The Directive Principles of State Policy is the **guidelines or principles** that the state should keep in mind while formulating policies and enacting laws.
- These are the constitutional instruction or recommendations to the legislature, executive and administrative manner.
- It resembles the '**Instrument of Instructions**' present in the **Government of India Act of 1935**.
- The Directive Principles are **non-justiciable** in nature, that is not legally enforceable by courts for their violation.
- On the basis of the content, Directive Principle can be classified into three broad categories such as **socialistic, Gandhian and liberal - intellectual**.
- The Directive Principles along with Fundamental rights contains the philosophy of Constitution and is the **soul of the Constitution**.
- Dr B.R. Ambedkar describes it as '**novel feature**'.

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80. Answer: b

**Explanation:**

Prince Salim, the future emperor Jahangir; distracted Akbar during the last years of his reign.

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81. Answer: b

**Explanation:**

In 1824 the Sepoys were asked to go to Burma by the sea route to fight for the Company.

---

82. Answer: b

**Explanation:**

On the summer solstice, Earth's maximum axial tilt toward the Sun is  $23.44^\circ$ . This is the June solstice in the Northern Hemisphere and the December solstice in the Southern Hemisphere.

---

**83. Answer: c**

**Explanation:**

Ural Mountains form the boundary between Europe and Asia.

---

**84. Answer: c**

**Explanation:**

The trachea is supported by a series of cartilaginous rings that prevent it from collapsing.

---

**85. Answer: a**

**Explanation:**

The tricuspid valve, or right atrioventricular valve, is on the right dorsal side of the mammalian heart, between the right atrium and the right ventricle.

---

**86. Answer: a**



**Explanation:**

Fat is a source of kilojoules (energy) and essential fatty acids. It is used as insulation to keep us warm, protection for vital organs and to carry fat-soluble vitamins.

**87. Answer: d**

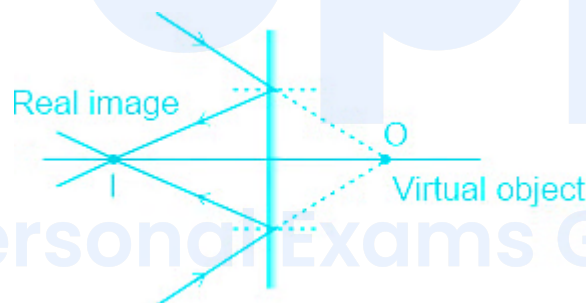
**Explanation:**

The correct answer is **infinity** .

★ Key Points

Plane Mirror:

- A plane mirror is a mirror with a flat (planar) reflective surface.



The characteristics of an image formed in a plane mirror:

- The image formed by the plane mirror is virtual and erect i.e. image cannot be projected or focused on a screen.
- The focal length of the plane mirror is infinite .
- The distance of the image 'behind' the mirror is the same as the distance of the object in front of the mirror .
- The size of the image formed is the same as the size of the object .
- The image is laterally inverted , i.e. left hand appears to be the right hand when seen from the plane mirror.

- If the object moves towards (or away from) the mirror at a certain rate, the image also moves towards (or away from) the mirror at the same rate.

**88. Answer: a**

**Explanation:**

- An electric current is a flow of electric charge.
- In electric circuits, this charge is often carried by moving electrons in a wire.

CONCEPT :

Electric current:

- The flow of electric charges through a conductor constitutes an electric current.
- Quantitatively, electric current in a conductor across an area held perpendicular to the direction of flow of charge is defined as the amount of charge flowing across that area per unit time i.e.,

$$\text{Electric current (I)} = \frac{\text{Electric charge (Q)}}{\text{Time (t)}}$$

- SI unit of current is ampere and it is denoted by the letter A.

t

EXPLANATION :

- In solids **valence electrons freely move** throughout the conductor, i.e., valence electrons are not attached to the atoms.
- When an electric field is applied, these valence electrons start flowing in a particular direction constituting the electric current.

**89. Answer: a**

**Explanation:**

Ubuntu is an open-source operating system (OS) based on the Debian GNU/Linux distribution. Ubuntu incorporates all the features of a Unix OS with an added customizable GUI, which makes it popular in universities and research organizations.

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**90. Answer: b****Explanation:**

Isotopes are defined as elements with same number of protons but different number of neutrons present in their nucleus. As the electrons remain same, so their chemical properties don't change however due to change in neutron number their atomic mass is changed which results in different physical properties like melting, colour etc.

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**91. Answer: a****Explanation:**

The pure gold is too soft on its own and is therefore hardened by the addition of alloying elements, copper, silver, nickel, palladium and zinc.

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**92. Answer: b****Explanation:**

An air pollutant is a substance in the air that can have adverse effects on humans and the ecosystem. A pollutant can be solid particles, liquid droplets, or gases.

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93. **Answer: a**

**Explanation:**

Pradhan Mantri Jeevan Jyoti Bima Yojana is available to people between 18 and 50 years of age with bank accounts.

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94. **Answer: d**

**Explanation:**

The Internet protocol suite (TCP/IP) was developed by Robert E. Kahn and Vint Cerf in the 1970s.

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95. **Answer: c**

**Explanation:**

Skeet shooting is a recreational and competitive activity where participants, using shotguns, attempt to break clay targets mechanically flung into the air from two fixed stations at high speed from a variety of angles.

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96. **Answer: a**

**Explanation:**

Mohiniattam or Mohiniyattam is an Indian classical dance of Kerala.

---

97. Answer: c

**Explanation:**

Nasira Sharma won a Sahitya Akademi Award for her novel Paarijat.

---

98. Answer: b

**Explanation:**

"Not Just an Accountant" book written by Vinod Rai.

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99. Answer: c

**Explanation:**

The correct answer is Option 3.

★ **Key Points**

- The Association of Southeast Asian Nations, or ASEAN, was established on 8 August 1967 in Bangkok, Thailand, with the signing of the ASEAN Declaration (Bangkok Declaration) by the Founding Fathers of ASEAN, namely Indonesia, Malaysia, Philippines, Singapore and Thailand.
- 

100. Answer: c

**Explanation:**

Afghan-India Friendship Dam (AIFD), formerly Salma Dam, is a hydroelectric and irrigation dam project located on the Hari River in Chishti Sharif District of Herat

Province in western Afghanistan.

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Your Personal Exams Guide