

# SSC MTS 8th July 2022 Shift-1

## English Language

1. Select the option that will improve the underlined part of the sentence. In case no improvement is needed, select 'No improvement required'.

The scientists have so far focused on improve cropped yields.

- A improving crop
- B improvement crop
- C No improvement required
- D improve cropping

**Answer:** A

2. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

The brightest stars / can be 30,000 times / most luminous / than the Sun

- A The brightest stars
- B most luminous
- C can be 30,000 times
- D than the Sun

**Answer:** B

3. Select the most appropriate option to fill in the blank.

He persuaded other towns near Amman to send \_\_\_\_\_ soldiers to help him.

- A its
- B there
- C their
- D they

**Answer:** C

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

Callous

- A Brutal
- B Problematic
- C Large
- D Humane

**Answer:** A

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

**Caustic**

- A Acidic
- B Photogenic
- C Basic
- D Soothing

**Answer:** A

6. Select the most appropriate option to fill in the blank.

Could you spell your name \_\_\_\_\_, please?

- A weakly
- B never
- C again
- D forever

**Answer:** C

7. Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement required'.

The courses provided by the training institute were more than enough.

- A more then enough
- B more enough
- C most enough
- D No improvement required

**Answer:** D

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

**To walk the tight rope**

- A Be an expert
- B Be very cautious
- C Be well trained
- D Be very nervous

**Answer:** B

9. The following sentence has been divided into parts. One of them may contain an error.

Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

Land revenue was one of the / major source of income / for Britishers in India.

- A No error
- B Land revenue was one of the
- C major source of income
- D for Britishers in India

**Answer: C**

10. Select the most appropriate option to fill in the blank.

Pilots must be \_\_\_\_\_ at all times to keep their passengers safe during the flight.

- A thirsty
- B distant
- C vigilant
- D forceful

**Answer: C**

11. Select the most appropriate option to fill in the blank.

If she likes something, she'll buy it \_\_\_\_\_ much it costs.

- A however
- B whatever
- C also
- D very

**Answer: A**

12. Select the sentence in which a word is INCORRECTLY spelt.

- A He hoped that he had won the prestigious award.
- B I could never be as talented as him.
- C His breathe smelled of garlic.
- D A woman gasped in horror at the sight of him.

**Answer: C**

13. Select the most appropriate ANTONYM of the given word.

Wicked

- A Evil
- B Sinful
- C Errant



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**D** Moral

**Answer:** D

14. Select the most appropriate synonym of the underlined word.

Medicines should be ordered by the generic name, not by the proprietary or trade name.

**A** Exclusive

**B** General

**C** Individual

**D** Specific

**Answer:** B

15. Select the most appropriate option to fill in the blank.

Ms. Gupta expressed her \_\_\_\_\_ for my political understanding.

**A** admiration

**B** location

**C** strength

**D** compassion

**Answer:** A

16. Select the most appropriate meaning of the underlined idiom.

When those thugs come near you, run at the drop of a hat.

**A** Be dressed for a party

**B** With all your belongings

**C** Go on a short trip

**D** Without delay

**Answer:** D

17. Select the option that can be used as a one-word substitute for the given group of words.

A person who makes maps

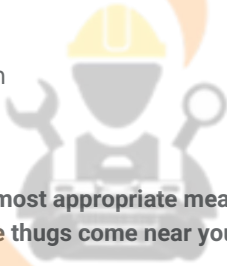
**A** Sinecure

**B** Anarchist

**C** Cartographer

**D** Polyglot

**Answer:** C



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18. The following sentence has been divided into parts. One of them may contain an error.

Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

He is / struggling to make / a honest living.

- A struggling to make
- B No error
- C a honest living
- D He is

**Answer: C**

19. Select the correctly spelt word.

- A Institute
- B Insitute
- C Instute
- D Insetute

**Answer: A**

20. Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement required'.

While travelling, one comes across the larger number of people.

- A the large number off
- B No improvement required
- C an larger number of
- D a large number of

**Answer: D**

### Instructions [21 - 25]

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Comprehension:

In Delhi, while the bigger schools transport their students in their own or hired buses; others rely on vans, autos and e-rickshaws where many reckless drivers pack in too many children and drive (1) \_\_\_\_\_, often causing accidents. Many parents take time off their daily (2) \_\_\_\_\_ to do school-runs. Some use vehicles while others just walk their children to school. Two months ago, it was reported how in the (3) \_\_\_\_\_ of road-crossing facilities near schools, a bunch of parents were taking turns to play traffic marshals. Not so long ago, children could just walk or cycle to their schools, private tuition classes or sports practice. In fact, school authorities (4) \_\_\_\_\_ to admit students living within walkable distances so that they wouldn't have to take the school bus or public transport. As Delhi grew, its children (5) \_\_\_\_\_ not only traffic, broken infrastructure but also violence, air-pollution and overcrowded living conditions.

21. Select the most appropriate option to fill in blank number 1.

- A humbly

- B** decisively
- C** rashly
- D** commonly

**Answer:** C

22. Select the most appropriate option to fill in blank number 2.

- A** habit
- B** routines
- C** problems
- D** task

**Answer:** B

23. Select the most appropriate option to fill in blank number 3.

- A** absence
- B** non-compliance
- C** defiance
- D** reference

**Answer:** A

24. Select the most appropriate option to fill in blank number 4.

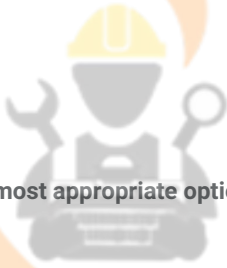
- A** rescued
- B** guided
- C** added
- D** preferred

**Answer:** D

25. Select the most appropriate option to fill in blank number 5.

- A** faced
- B** replied
- C** called
- D** relied

**Answer:** A



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## General Intelligence and Reasoning

26. In a certain code language, 'VIOLET' is written as 'TJMMCU', and 'MARKET' is written as 'KBPLCU'. How will 'ROCKET' be written in that language?

- A PPALCU
- B UCALTP
- C GGSJAL
- D PAPPLU

**Answer: A**

27. Select the option in which the two numbers are related in the same way as are the numbers in the given number-pair.  
416 : 614 :: ?

- A 384 : 843
- B 286 : 682
- C 483 : 843
- D 592 : 925

**Answer: B**

28. Select the number from among the given options that can replace the question mark (?) in the following series.  
12, 25, 51, 103, 207, ?

- A 415
- B 413
- C 416
- D 414

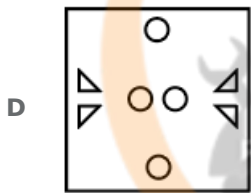
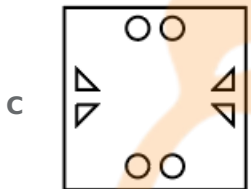
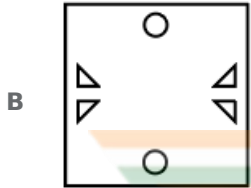
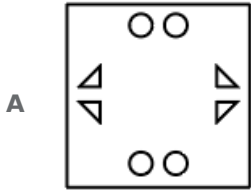
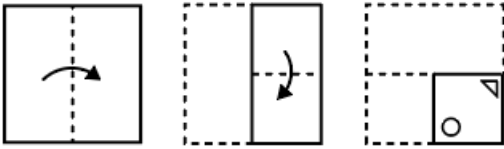
**Answer: A**

29. In a certain code language, if bread is called butter, butter is called blood, blood is called water, water is called cheese, and cheese is called toner, then what is red in colour?

- A Water
- B Butter
- C Toner
- D Blood

**Answer: A**

30. The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



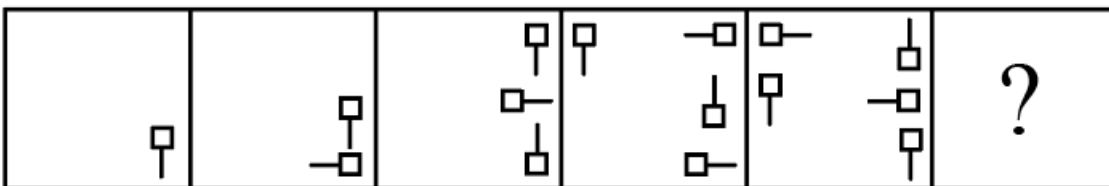
Answer: C

31. In a certain code language, 'READS' is written as 'IVZWH', and 'FRIBC' is written as 'UIRYX'. How will 'GHKTX' be written in that language?

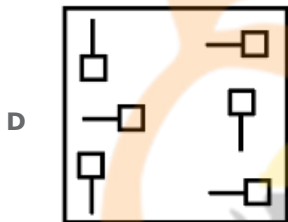
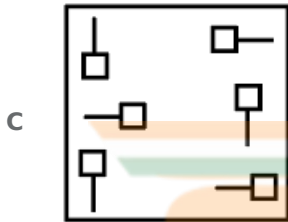
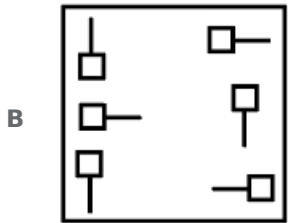
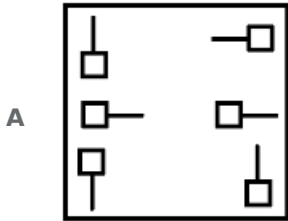
- A TSPCG
- B TSPGD
- C TSPGC
- D TTPGC

Answer: C

32. Select the figure from among the given options that can replace the question mark(?) in the following series.







Answer: C

33. Which number will replace the question mark (?) in the following series?  
40, 80, 200, 600, 2100, ?

A 10500

B 9600

C 8400

D 6300

Answer: C

34. Seven girls G1, G2, G3, G4, G5, G6 and G7 sit in a row facing towards the north (not necessarily in the same order). G4 sits fifth to the right of G1. G4 does not sit at any of the extreme ends. G6 sits exactly in the middle of the row. G6 sits third to the left of G2. Only two girls sit between G7 and G5. G7 is not an immediate neighbour of G6. Who are the immediate neighbours of G3?

A G4 and G2

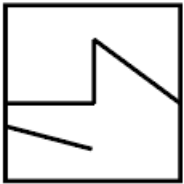
B G5 and G7

C G6 and G7

D G1 and G2

Answer: C

35. Select the option in which the given figure is embedded



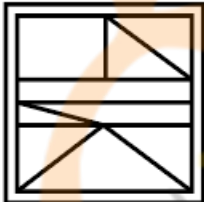
A



B



C



D



**Answer: C**

36. Select the option that is related to the fifth alphanumeric-cluster in the same way as the second alphanumeric-cluster is related to the first alphanumeric-cluster and the fourth alphanumeric-cluster is related to the third alphanumeric-cluster.  
P4 : N9 :: M16 : K25 :: G49 : ?

A H55

B F64

C I72

D E64

**Answer: D**

37. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.  
BAL : ODE :: AGR : ?

- A UKD
- B UJE
- C VJD
- D UJD

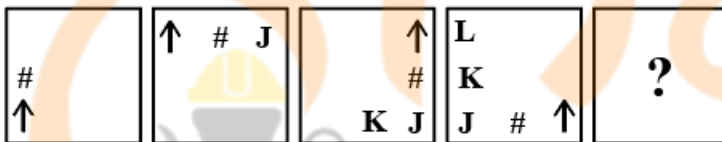
Answer: D

38. In a certain code language, 'TOPICS' is written as 'QAGONS' and 'GREATH' is written as 'FRYDQF'. How will 'BANDEF' be written in that language?

- A DCCMZA
- B DCBMZA
- C DCBMYA
- D DCBNYA

Answer: B

39. Select the figure from among the given options that can replace the question mark (?) in the following series.



- A 

K	J	L
#		F
↑		
- B 

J	K	L
#		F
↑		
- C 

J	K	L
↑		F
#		
- D 

J	K	F
#		L
↑		

Answer: B

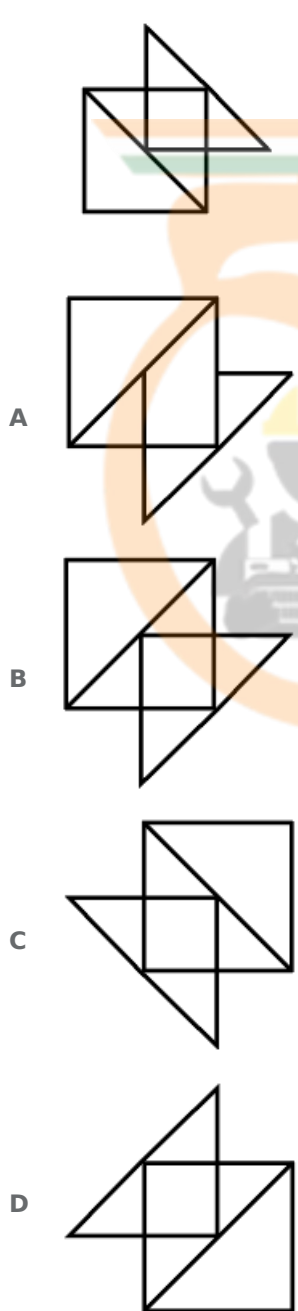
40. After interchanging the two signs + and  $\times$ , what will be the value of the given equation?

$$25 \times 5 + 4 \div 2 - 10 = ?$$

- A 35
- B 20
- C 30
- D 25

Answer: D

41. Select the correct mirror image of the given figure when the mirror is placed to its right side.



Answer: D

42. The ages of seven boys B1, B2, B3, B4, B5, B6 and B7 are compared. All boys have different ages. The age of B4 is less than three boys. The age of B1 is only greater than B7 and B3. The age of B5 is greater than B6 but less than B2. The age of how many boys is less than B6?

- A 2
- B 1
- C 3
- D 4

**Answer:** D

43. 6 persons A, B, C, D, E and F are sitting around a rectangular table facing the centre (not necessarily in the same order). Two persons are sitting on each larger side and one person is sitting on each shorter side. D is sitting opposite to F. A and E are sitting on the same side. Neither B nor E is sitting just next to D. C sits to the right of D.

Which of the following statements is correct?

I. C is the second to the left of F.

II. E is sitting opposite to C.

- A Only I
- B Only II
- C Both I and II
- D Neither I nor II

**Answer:** A

44. Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.

**NOTE:** Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.

E.g. 13 - Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

21 : 9261 :: 17 : 4913 :: 8 : ?

- A 1024
- B 488
- C 512
- D 2356

**Answer:** C

45. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

**Statements:**

I. No car is red.

II. All reds are blues.

**Conclusions:**

I. Some blues are not cars.

II. No red is a car.

- A Both conclusions I and II follow
- B Neither conclusion I nor II follows
- C Only conclusion I follows
- D Only conclusion II follows

**Answer: A**

46. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

**Statements:**

Some blankets are pillows.

All pillows are cushions.

**Conclusions:**

I. Some blankets are cushions is a possibility.

II. Some cushions are pillows.

- A Only conclusion II follows
- B Only conclusion I follows
- C Neither conclusion I nor II follows
- D Both conclusions I and II follow

**Answer: D**

47. Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.

AZBZ : CYDY :: EXFX : GWHW :: IVJV : ?

- A IJKV
- B KVLV
- C IUJU
- D KULU

**Answer: D**

48. By interchanging the given two signs and two numbers (not digits), which of the following equations will NOT be correct?

× and -, 27 and 35

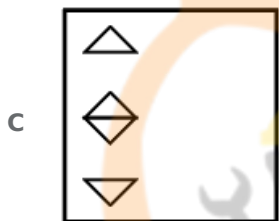
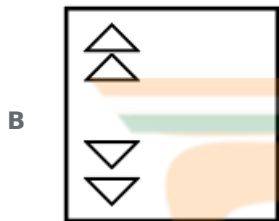
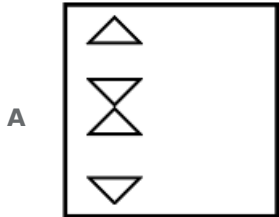
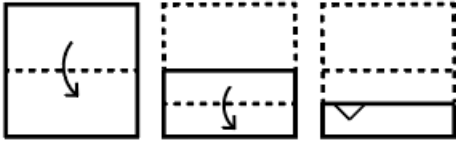
I.  $27 \div 7 - 6 \times 5 + 35 = 53$

II.  $11 - 7 + 35 \times 420 \div 27 = 93$

- A Neither I nor II
- B Only II
- C Both I and II
- D Only I

**Answer: C**

49. The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



**Answer:** D

50. Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.  
RN, NP, JR, ?, BV

A ER

B ET

C FS

D FT

**Answer:** D

## Numerical Aptitude

51. What is the compound interest on a sum of 8000 at the rate of 5% per annum compounded quarterly for 3 months?

- A ₹100
- B ₹150
- C ₹80
- D ₹120

**Answer: A**

52. A bag contains ₹5 and ₹10 coins for a total of 40 coins and a total amount of ₹310. What is the difference between the amount made up of all ₹10 coins and the amount made up of all ₹5 coins?

- A ₹125
- B ₹120
- C ₹110
- D ₹130

**Answer: D**

53. The cost price of a car is five times of the loss incurred on selling this car. What is the loss percentage?

- A 25%
- B 16.66%
- C 20%
- D 33.33%

**Answer: C**

54. What is the value of  $5 + [12 + 3 \times \{5 + (6 \times 3 - 5)\}]$ ?

- A 75
- B 74
- C 71
- D 66

**Answer: C**

55. The simple interest on a sum at 3% p.a in 3 years is ₹315. What is the compound interest on the same sum at 4% p.a in 2 years, interest compounded yearly?

- A ₹228.48
- B ₹204
- C ₹326.6
- D ₹285.6



**Answer: D**

56. In an office with 40 officers, the average salaries of class-A, class-B and class-C officers are ₹600, ₹750 and ₹1,000 a day, respectively. The numbers of class-A, class-B and class-C officers in the office are in the ratio 5 : 4 : 1, respectively. Find the monthly average salary (in ₹) of an officer, all the 40 of them taken together. [ Assume the number of days in a month to be 30.]

- A 25,800
- B 21,000
- C 24,030
- D 24,600

**Answer: B**

57. The volume of a cuboid is  $3300 \text{ cm}^3$ . The sum of the length and the breadth of the cuboid is 37 cm. If the difference between the length and the breadth of the cuboid is 13 cm, then what is the height of the cuboid?

- A 18 cm
- B 11 cm
- C 14 cm
- D 16 cm

**Answer: B**

58. Find the height of a right pyramid if its base is a square of side 80 cm and the volume of the pyramid is  $16000 \text{ cm}^3$ .

- A 4.5 cm
- B 7.5 cm
- C  $2\sqrt{2}$  cm
- D 2.5 cm

**Answer: B**

59. A and B currently have an age ratio of 7 : 3. After 7 years this age ratio will become 2 : 1. After how many years from now will the age ratio between the ages of A and B become 3 : 2?

- A 49 years
- B 42 years
- C 35 years
- D 28 years

**Answer: C**

60. P, Q and R can complete a task together in 15 days. P and R can complete the task together in 40 days. In how many days can Q complete the task alone?

- A 30 days
- B 24 days
- C 21 days
- D 25 days

**Answer: B**

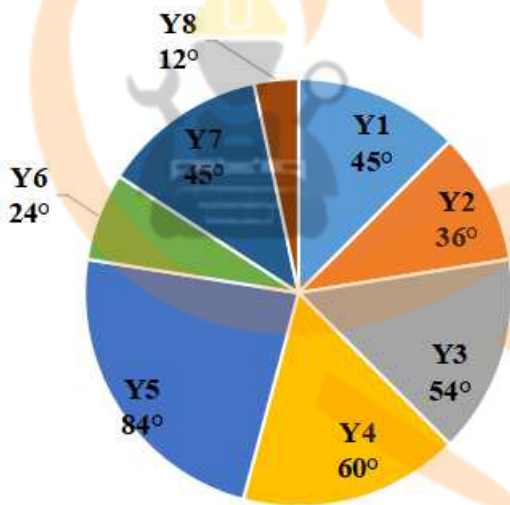
61. If  $P = 2^3 \times 5^8$  and  $Q = 3^5 \times 7^3$ , then what is the least common multiple of P and Q?

- A  $2^3 \times 3^5 \times 5^8 \times 7^3$
- B  $3^5 \times 5^8 \times 7^3$
- C  $3^5 \times 5^8$
- D  $5^8 \times 7^3$

**Answer: A**

62. Study the given pie chart and answer the question that follows.

The following pie chart shows the sectors representing the shares of the number of matches played by a team in each of eight consecutive years in terms of the central angles (in degrees) with respect to the total number of matches played by the team in all the eight years taken together.



The total number of matches played by the team in the years Y2 and Y5 taken together is approximately what percentage of the total number of matches played by the team in all the eight years taken together?

- A 13.33%
- B 15.75%
- C 10.25%
- D 14.28%

**Answer: A**

63. The population of a village decreases every year at the rate of 3%. If the present population is 28227, what was the population of the village two years ago?

- A 31868
- B 30000
- C 32472
- D 30560

**Answer:** B

64. The price of kerosene is ₹48 per litre and the price of spirit is ₹30 per litre. In what ratio should the kerosene and spirit be mixed so that the profit after selling the mixture at ₹60 per litre will be 50%?

- A 1:1
- B 5:4
- C 2:3
- D 3:4

**Answer:** B

65. Pinky can swim 27 km downstream or 15 km upstream in 3 hours. What is the velocity of the current?

- A 3 km/h
- B 5 km/h
- C 4 km/h
- D 2 km/h

**Answer:** D

66. The monthly income of a person is ₹25,000. He spends 80% of his income and saves the rest. His nominal income and his nominal spending both increase by 10%. What will be his new savings?

- A ₹5,500
- B ₹6,000
- C ₹5,750
- D ₹5,000

**Answer:** A



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67. Study the following table carefully and answer the question.

The following table shows the percentage of population infected and the ratio of males and females infected by COVID-19 in six different cities.

City	Percentage of population infected by COVID-19	Ratio of males and females infected by COVID-19
Durjanpur	40	3:02
Sitapur	21	2:01
Durgapur	60	5:07
Shyampur	50	7:03
Haripur	55	6:05
Devpur	25	4:01

If in Haripur, males infected by COVID-19 was 8436 and in Sitapur, females infected by COVID-19 is 30% less than the females infected by COVID-19 in Haripur, then find out the total number of people infected by COVID-19 in Sitapur.

A 16,872

B 14,763

C 19,794

D 13,536

**Answer: B**

68. The average of four consecutive odd numbers is 8. If the next odd number is also considered, then what will be the new average of these five numbers?

A 9

B 7

C 10

D 11

**Answer: A**

69. An article costs ₹750. It is marked up to give 30% profit. What is the selling price if a customer gets a discount of 15% on it?

A ₹758.75

B ₹828.75

C ₹800

D Same as the cost price

**Answer: B**

70. The diagonal of a rectangle is 20 cm. If its breadth is 12 cm, then what will be its length?

A 15 cm

B 16 cm

C 18 cm

D 17 cm

**Answer:** B

71. A alone can do a piece of work in 12 days. B alone can do the same work in 18 days. C alone can do the same work in 24 days. In how many days will they complete 65% of the work, if all three work together?

A 3.6 days

B 3.9 days

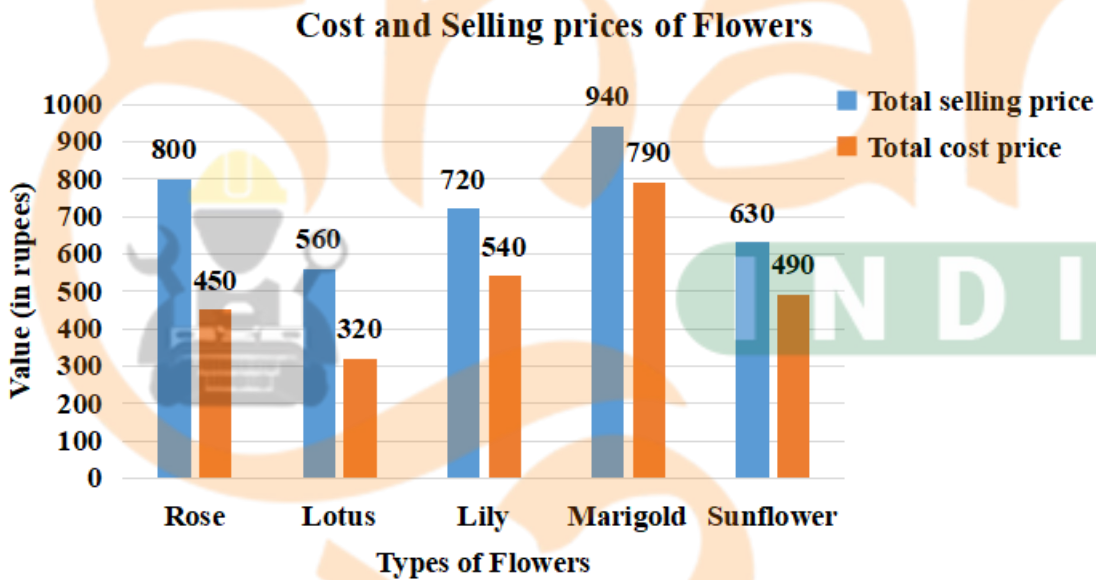
C 4.2 days

D 4.5 days

**Answer:** A

72. Study the given bar-graph and answer the question that follows.

The bar-graph given below shows the total selling price (in ₹) and the total cost price (in ₹) of five different flowers in a flower shop on a particular day.



The number of roses, lilies and sunflowers sold from that shop on that day were 7, 5, and 10, respectively. Find the sum of the profits earned by selling a rose, a lily and a sunflower on that day.

A ₹120

B ₹150

C ₹90

D ₹100

**Answer:** D

73. Find the length of a train, if it completely crosses two bridges of lengths 600 m and 300 m in 80 seconds and 60 seconds, respectively.

- A 120 m
- B 130 m
- C 600 m
- D 110 m

**Answer: C**

74. The value of  $16^2 - 256^{\frac{1}{4}} + 2197^{\frac{1}{3}}$  is:

- A 265
- B 280
- C 262
- D 241

**Answer: A**

75. The selling price of a bulb is half of its cost price. What is the loss percentage?

- A 60%
- B 20%
- C 40%
- D 50%

**Answer: D**



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## General Awareness

76. 'Loor' is a folk dance of which state of India?

- A Haryana
- B Manipur
- C Karnataka
- D Kerala

**Answer: A**

77. The Congress split took place in \_\_\_\_\_.

- A 1905
- B 1903

C 1907

D 1908

**Answer: C**

78. **Poverty line measures poverty on the basis of:**

A expenditure only

B income level and literacy rate

C savings only

D income level or consumption expenditure

**Answer: D**

79. **As on Jan 2022, who among the following has been appointed as the new Chairman of ISRO?**

A BN Suresh

B S Somanath

C K Sivan

D ASK Kumar

**Answer: B**

80. **The Indian National Congress was established in \_\_\_\_\_.**

A 1879

B 1877

C 1875

D 1885

**Answer: D**

81. **In which of the following grounds did Yuvraj Singh hit 6 sixes in an over of a T20 International match?**

A Wanderers Stadium

B Kingsmead Stadium

C Mabhida Stadium

D Newlands Cricket Ground

**Answer: B**

82. **Which of the following Articles of the Indian Constitution talks about joint sitting of both Houses in certain cases?**

A Article 110

- B** Article 128
- C** Article 75
- D** Article 108

**Answer:** D

83. 'The Diary of a Young Girl' is an autobiography of:

- A** Anne Frank
- B** Agatha Christie
- C** Michelle Obama
- D** Jessica Simpson

**Answer:** A

84. Which feature of the Indian Constitution is borrowed from the Constitution of Britain?

- A** Fundamental duties
- B** Parliamentary government
- C** Judicial review
- D** Fundamental rights

**Answer:** B

85. Which of the given statements is correct regarding properties of suspension?

- I.** Suspension is a heterogeneous mixture.
- II.** The particles of a suspension can be seen by the naked eye.

- A** Only I
- B** Neither I nor II
- C** Both I and II
- D** Only II

**Answer:** C

86. Spirogyra belongs to which group of plant kingdom?

- A** Bryophyta
- B** Angiosperms
- C** Pteridophyta
- D** Thallophyta

**Answer:** D



87. Kamala Narayan is known for which classical dance form?

- A Bharatanatyam
- B Kathakali
- C Odissi
- D Kathak

**Answer: A**

88. Kardang Monastery which is a Buddhist Pilgrimage is situated in which state of India?

- A Jharkhand
- B Goa
- C Himachal Pradesh
- D Kerala

**Answer: C**

89. In February 2022, which Indian state government announced that 'Hope Express' would be launched in the state to prevent cancer?

- A Odisha
- B Maharashtra
- C Karnataka
- D Chhattisgarh

**Answer: B**

90. Who will co-host the ICC Men's T20 World Cup 2024?

- A Australia
- B The United Kingdom
- C The United States of America (USA)
- D Sri Lanka

**Answer: C**

91. Which of the following crops takes almost a year to grow?

- A Sugarcane
- B Peas



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**C** Cucumber

**D** Rice

**Answer:** A

92. In 1526, \_\_\_\_\_ was defeated by Babur at Panipat.

**A** Sikander Lodi

**B** Rana Lodi

**C** Bahlul Lodi

**D** Ibrahim Lodi

**Answer:** D

93. How many countries share land boundaries with India?

**A** Seven

**B** Ten

**C** Eight

**D** Five

**Answer:** A

94. Which of the following is an example of sedimentary rocks?

**A** Sandstone

**B** Granite

**C** Slate

**D** Marble

**Answer:** A

95. Pongal is a harvest festival of which state of India?

**A** Tamil Nadu

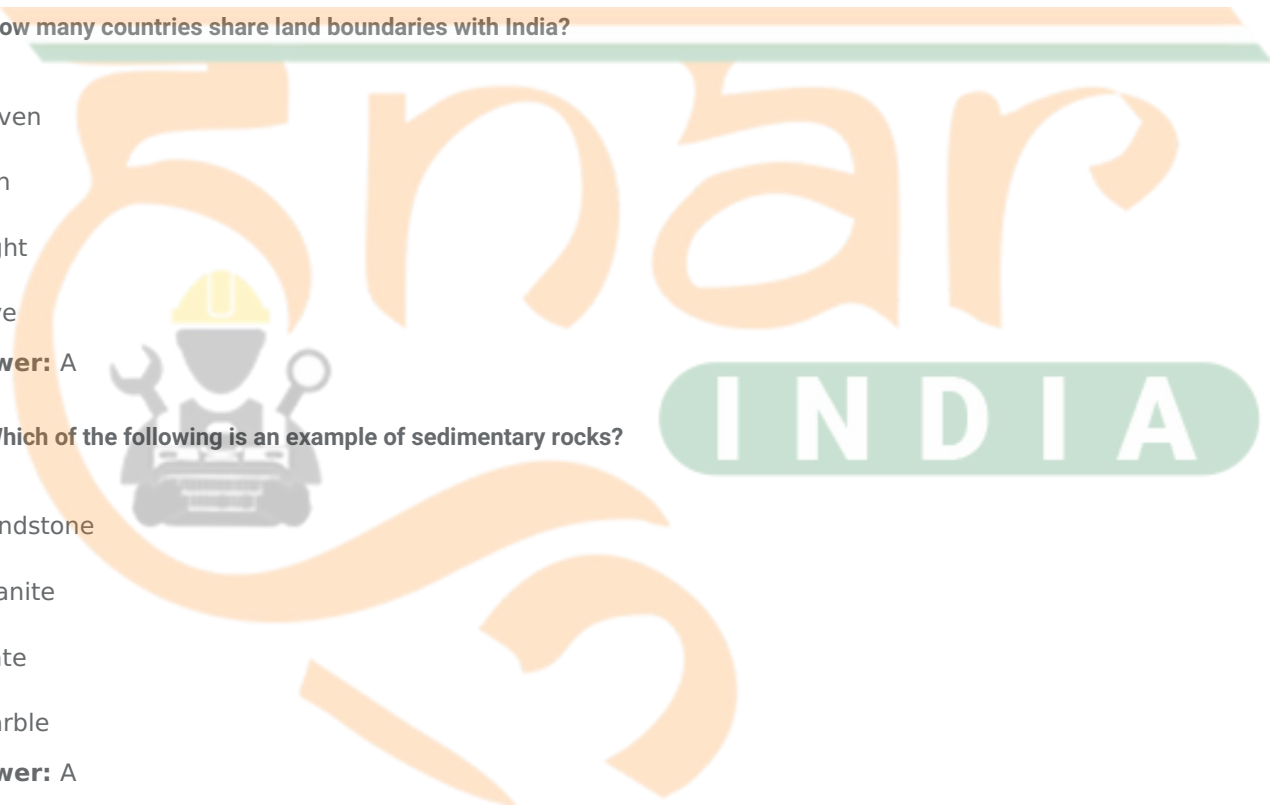
**B** Mizoram

**C** Rajasthan

**D** Manipur

**Answer:** A

96. Which of the following is a young fold mountain?



- A The Alps
- B The Appalachians
- C Aravalli Range
- D The Vosges

**Answer:** A

97. Dharmasutras contain:

- A tricks to capture an empire
- B norms for women only
- C techniques to recite shlokas
- D norms for rulers

**Answer:** D

98. With which of the following was Kadri Gopalnath associated?

- A Sitar
- B Saxophone
- C Tabla
- D Flute

**Answer:** B

99. Which of the following bodies publishes the Human Development Report?

- A United Nations Food Organization
- B United Nations Human Resource Development
- C World Health Organization
- D United Nations Development Programme

**Answer:** D

100. When the litmus solution is neither acidic nor basic then its colour is \_\_\_\_\_.

- A purple
- B red
- C yellow
- D blue

**Answer:** A



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