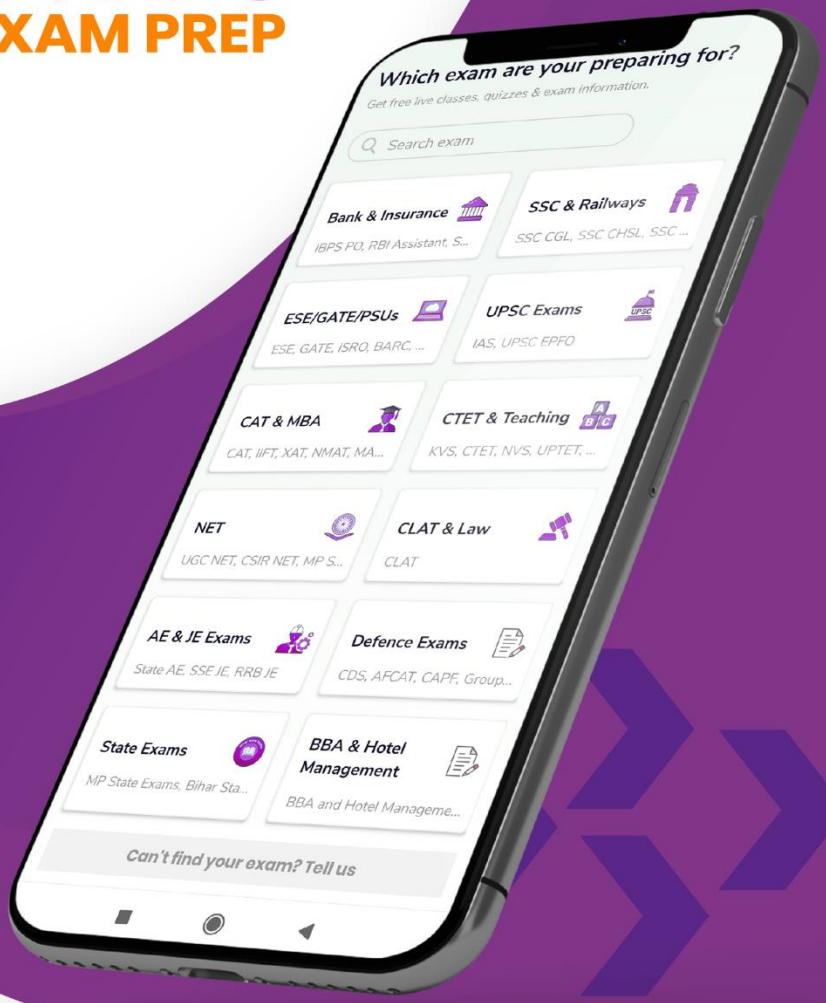
BYJU'S EXAM PREP



RRB NTPC 2019 CBT 1 Paper 3 Mar 2021 Morning Shift

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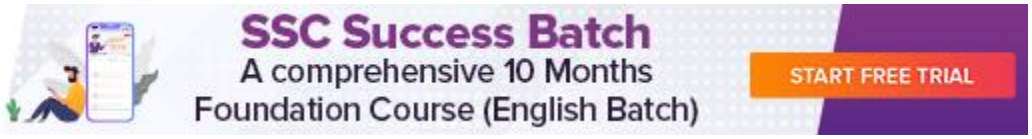
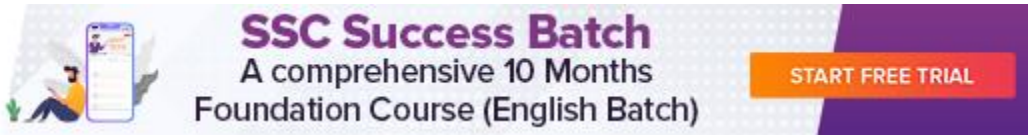
3 March 2021
MORNING SHIFT

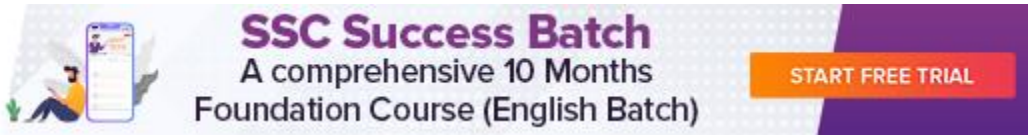
1. Which of the following is an input device?
A. Mouse
B. Printer
C. Speaker
D. Monitor
Ans: A
2. In which year was the Indian national anthem sung for the first time at the Indian National Congress Session?
A. 1911
B. 1912
C. 1910
D. 1909
Ans: D
3. Which Indian revolutionary assassinated Michael O' Dwyer?
A. Bhagat Singh
B. Sukhdev Thapar
C. Udham Singh
D. Rajguru
Ans: C
4. In which state is the Nanda Devi National Park located?
A. Bihar
B. Madhya Pradesh
C. Uttrakhand
D. Uttar Pradesh
Ans: C
5. Which of the following rational number lies between 9.2 and 10.5?
A. 10.67
B. 9.08
C. 9.15
D. 9.55
Ans: D
6. What is the targeted annual average growth rate in GDP as per the Eleventh Five-Year Plan?
A. 9%
B. 8%
C. 7%
D. 6%
Ans: B



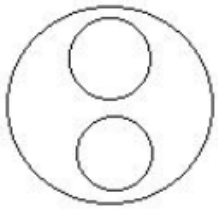
7. Select the number from among the given options that can replace the question mark (?) in the following series.
3, 4, 7, 12, 19, 28, ?
A. 39
B. 48
C. 42
D. 37
Ans: A
8. The animals that eat both plants and animals are called:
A. Neither carnivores, omnivores or herbivores
B. carnivores
C. herbivores
D. omnivores
Ans: D
9. Which of the following is NOT a 'Maharatna' status company?
A. IOCL
B. GAIL
C. BHEL
D. MTNL
Ans: D
10. The external angle of a regular polygon is 72º. Find the internal angle.
A. 160º
B. 108º
C. 120º
D. 180º
Ans: B
11. International Labour Organization was founded on _____.
A. 14 December 1945
B. 14 December 1946
C. 15 November 1947
D. 15 November 1947
Ans: D
12. The 'father of modern botany' is:
A. Edward Jenner
B. G.J. Mendel
C. Carl Linnaeus
D. Louis Pasteur
Ans: C



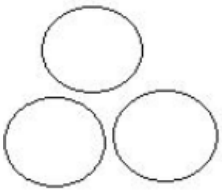
13. Who started the practice of 'sijda' in India?
A. Iltutmish
B. Qutubuddin Aibak
C. Razia Sultana
D. Ghiyas-ud-din Balban
Ans: D
14. If the mean of five observations x, x – 1, x – 2, x – 3 and x – 4 is 20, then the mean of the first two observations is:
A. 23.5
B. 22.5
C. 21.5
D. 20.5
Ans: C
15. How many phases of the Lok Sabha election were held from 11 April to 19 May 2019?
A. Eight
B. Six
C. Nine
D. Seven
Ans: D
16. Read the given statements, labelled Assertion (A) and Reason (R), and select the most appropriate option with respect to them.
Statements:
'A': Carbon dioxide is not always a pollutant.
'R' : Plants require carbon monoxide for growth that they get from carbon dioxide.
A. Statement 'A' is true but statement R' is false.
B. Both statements 'A' and 'R' are false.
C. Both statements 'A' and 'R' are true but 'R' is not the correct explanation of 'A'.
D. Both statements 'A' and 'R' are true and 'R' is the correct explanation of 'A'.
Ans: A
17. Select the option that is related to the third term in the same way as the second term is related to the first term.
Bull : Charge :: Butterfly : ?
A. Wander
B. Swim
C. Glide
D. Flutter
Ans: D



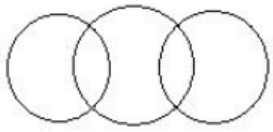
18. Select the Venn diagram that best represents the relationship between the given set of classes.
Wrestlers, Boxers, Fighters
A.



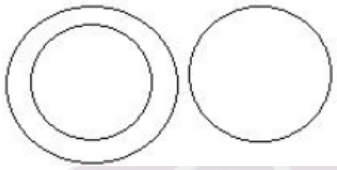
B.



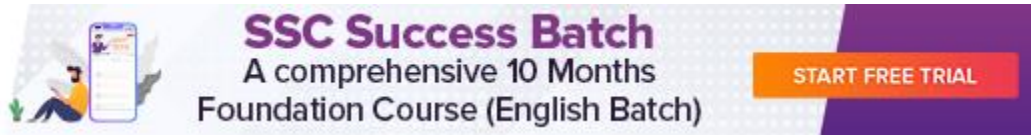
C.



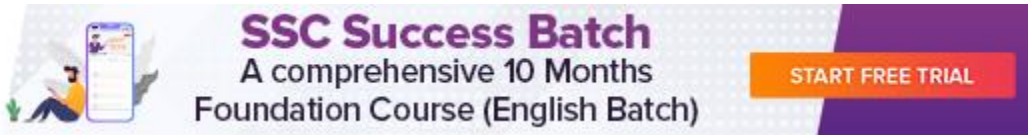
D.



Ans: A
19. In which year did Chauri Chaura incident take place?
A. 1922
B. 1913
C. 1919
D. 1917
Ans: A
20. The cost of 10 pencils and 12 pens is Rs.150. What is the cost of 30 pencils and 36 pens?
A. Rs.600
B. Rs.450
C. Rs.200
D. Rs.300
Ans: B
21. Where is the Tata Institute of Fundamental Research situated?
A. Mumbai
B. Calcutta



C. Bengaluru
D. Chennai
Ans: A
22. In a certain code language, 'PQRS' is written as 'HIJK'. How will 'XYZA' be written as in the same coding language?
A. JKLM
B. TUWX
C. NOPQ
D. PQRS
Ans: D
23. 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. All cars are eatable goods.
II. All geysers are eatable goods.
Conclusions:
(i) Some cars are geysers.
(ii) Some geysers are cars.
A. Both conclusions (i) and (ii) follow.
B. Either conclusion (i) or (ii) follows.
C. Only conclusion (i) follows.
D. Neither conclusion (i) nor (ii) follows.
Ans: D
24. Which of the following is a lie detector machine?
A. Tachometer
B. Telescope
C. Photometer
D. Polygraph
Ans: D
25. If $\tan 15^\circ = 2 - \sqrt{3}$, what is the value of $\tan 15^\circ \cot 75^\circ + \tan 75^\circ \cot 15^\circ$.
A. 8
B. 14
C. 12
D. 10
Ans: B
26. Where is the Sahara desert located?
A. South Africa
B. North Africa
C. Iran
D. Australia
Ans: B



27. Which is the primary memory of a computer?
A. RAM
B. DVD
C. USB
D. CD
Ans: A

28. Study the given pattern carefully and select the letter that can replace the question mark (?) in it.

A. O
B. P
C. M
D. Q
Ans: C

29. If 0.02x = 0.5y, then find the value of $\frac{x-y}{x+y}$ is:

A. $\frac{13}{12}$
B. $\frac{11}{12}$
C. $\frac{12}{13}$
D. $\frac{11}{13}$
Ans: C

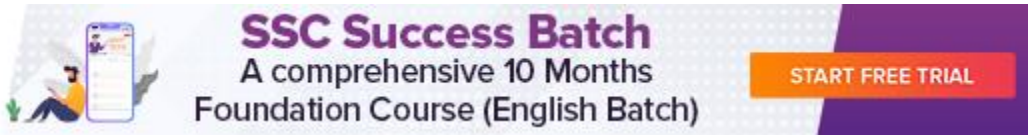
30. The rectangle represents a set of calculations that are common across all the given equations. Identify the calculations involved and solve the third equation on the same basis:

36 ▭ 81 = 6; 9; 15

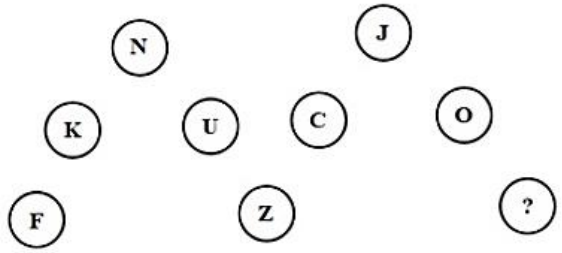
64 ▭ 144 = 8; 12; 20

49 ▭ 100 = ? ; ? ; ?

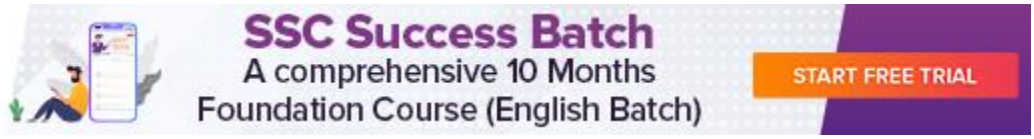
A. 10; 15; 20
B. 9; 12; 19
C. 2; 5; 7
D. 7; 10; 17
Ans: D



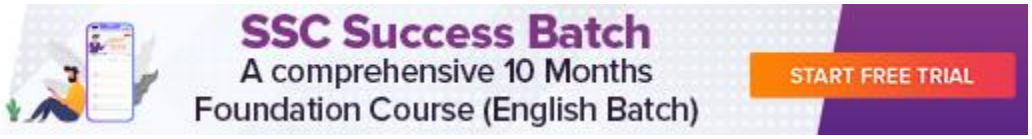
31. In which sport did Meena Kumari Maisnam win the gold medal in Germany in April 2019?
A. Boxing
B. Golf
C. Chess
D. Javelin Throw
Ans: A
32. Select the alphanumeric-cluster that can replace the question mark (?) in the following series.
D4U, GOR, J160, ?
A. M25L
B. 123R
C. L2OM
D. N25L
Ans: A
33. Find the selling price, when cost price is Rs.70 and loss is 10%.
A. Rs.62
B. Rs.60
C. Rs.63
D. Rs.36
Ans: C
34. Study the given pattern carefully and select the letter that can replace the question mark (?) in it.



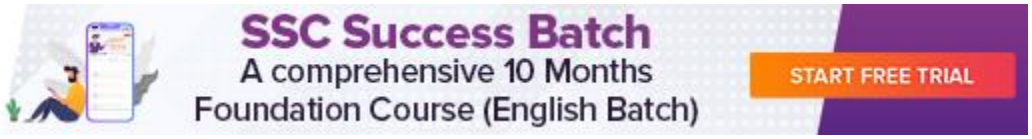
A. L
B. R
C. S
D. P
Ans: B
35. The first Guru of the Sikh religion was:
A. Shri Guru Gobind Singh Ji
B. Shri Guru Nanak Dev Ji
C. Shri Guru Hargobind Singh Ji
D. Shri Guru Ram Das Ji
Ans: B



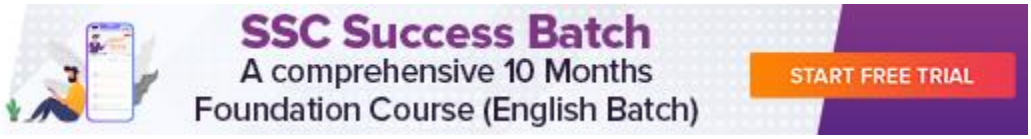
36. The first spacecraft to land on the Moon was the:
A. Apollo 14
B. Loona 18
C. Apollo 11
D. Luna 16
Ans: C
37. The Nobel Prize in Economic Sciences was awarded to:
A. Dadabhai Naoroji
B. Sukumar Sen
C. Jai Prakash Narayan
D. Amartya Sen
Ans: D
38. One-fourth of one-eighth of a number is 300. What is one-fifth of the same number?
A. 1900
B. 1910
C. 1890
D. 1920
Ans: D
39. Solve the following:
684 ÷ 9 ÷ 0.5 = ?
A. 124
B. 130
C. 152
D. 160
Ans: C
40. In which state is the archaeological site of Surkotada situated?
A. Punjab
B. Gujarat
C. Rajasthan
D. Bihar
Ans: B
41. A train passes two persons who are walking in the opposite direction of the train at the rates of 4 m/s and 10 m/s in 10 seconds and 8 seconds respectively. What is the speed of the train?
A. 15 m/s
B. 20 m/s
C. 40 m/s
D. 10 m/s
Ans: B



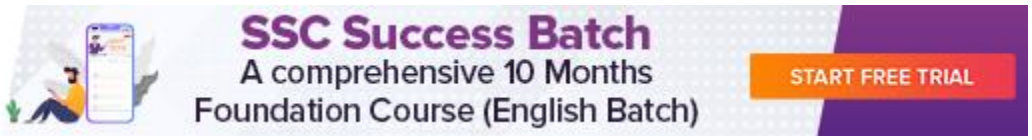
42. The length and breadth of a rectangle are in the ratio 2 : 1. The numerical values of the perimeter and the area of the rectangle are in the ratio 3 : 4. Find the length of the rectangle.
A. 16 units
B. 4 units
C. 6 units
D. 8 units
Ans: D
43. Solve the following:
$4\frac{1}{3} \times 2\frac{4}{5} \div 2\frac{1}{3} = ?$
A. $6\frac{1}{5}$
B. $5\frac{1}{5}$
C. $6\frac{6}{5}$
D. $1\frac{6}{5}$
Ans: B
44. Worker A is thrice as efficient as worker B. They can together finish a task in 18 days. How many days will A alone take to finish the work? Ans
A. 24 days
B. 42 days
C. 12 days
D. 48 days
Ans: A
45. A class consists of 60 students with the ratio of girls to boys as 5 : 7. If 5 boys leave the class, the ratio of boys to girls would become:
A. 6 : 5
B. 5 : 6
C. 5 : 7
D. 7 : 5
Ans: A
46. The length of a rectangle is 2 cm more than its breadth. If the perimeter of the rectangle is 20 cm, then its area is:
A. 20 cm^2
B. 24 cm^2
C. 4 cm^2
D. 14 cm^2
Ans: B



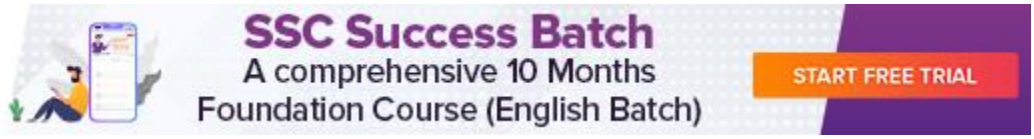
47. If the inradius of a triangle with perimeter 64 cm is 8 cm, then find the area of the triangle.
A. 120 cm^2
B. 256 cm^2
C. 265 cm^2
D. 146 cm^2
Ans: B
48. Who is known as the 'Missile Man of India'?
A. K Sivan
B. Dr. APJ Abdul Kalam
C. Bhisham Sahni
D. CV Raman
Ans: B
49. The square root of 4096 is:
A. 66
B. 64
C. 63
D. 62
Ans: B
50. 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 woman is a cow.
II. Elif is a woman.
Conclusions:
(i) Elif is not a cow.
(ii) Elif may or may not be a cow.
A. Only conclusion (i) follows.
B. Either conclusion (i) or (ii) follows.
C. Both conclusions (i) and (ii) follow.
D. Neither conclusions (i) nor (ii) follow.
Ans: A
51. Where are the headquarters of RBI located?
A. Kolkata
B. Mumbai
C. Chennai
D. Patna
Ans: C



52. Who coined the term "protoplasm"?
A. Johann Evangelist Purkinje
B. Robert Hooke
C. G.J. Mendel
D. Charles Darwin
Ans: A
53. 'Mrignayani ka Mahal' is situated in:
A. Jabalpur
B. Bhopal
C. Jaipur
D. Gwalior
Ans: D
54. If x = 3 and y = 5, then the value of $(4x^2 + 4xy + y^2)$ is:
A. 121
B. 49
C. 120
D. 9
Ans: A
55. If $\sin q + \cos q = \frac{\sqrt{7}}{2}$, then find the value of $\sin\theta - \cos\theta$.
A. 0
B. 1
C. $\frac{1}{2}$
D. $\sqrt{2}$
Ans: C
56. A vendor purchased 300 mangoes for 3600. Some of the mangoes were rotten and were thrown away. He sold the remaining mangoes at 33 each and made a profit of 3210. The percentage of mangoes thrown away is:
A. 20%
B. 10%
C. 5%
D. 30%
Ans: B
57. If $5\sin\theta + 12\cos\theta = 13$, then find the value of $5\cos\theta - 12\sin\theta$.
A. –2
B. 1
C. 0
D. –1
Ans: C



58. The first meeting of the Constituent Assembly of India was held on:
A. 9 December 1946
B. 7 December 1947
C. 8 March 1945
D. 26 January 1948
Ans: A
59. Which of the following is NOT a type of animal tissue?
A. Epithelial tissue
B. Meristematic tissue
C. Connective tissue
D. Muscular tissue
Ans: B
60. Diffusion is a process by which:
A. oxygen can move across the plasma membrane
B. organisms can breathe
C. organisms can breed
D. oxygen can move across the WBC
Ans: A
61. How many countries are members of SAARC?
A. Four
B. Five
C. Seven
D. Eight
Ans: D
62. Where is the Indira Gandhi International Airport located?
A. Delhi
B. Chandigarh
C. Chennai
D. Mumbai
Ans: A
63. A man sells flowers at 4% loss on cost of price but he uses 20g instead of 25g weight to measure. What is his percentage profit?
A. 40%
B. 60%
C. 20%
D. 10%
Ans: C
64. Three different positions of the same dice are shown. Select the pattern that will be on the face Three differ opposite to the one with the triangle.



A. Circle
B. Rectangle
C. Star
D. Diamond
Ans: B

65. If $x^2 + y^2 = 41$ and $xy = 20$, then find the value of $\frac{1}{x} + \frac{1}{y}$.

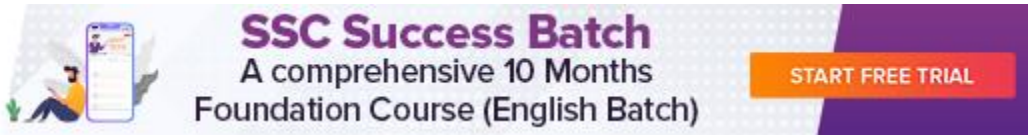
A. $\frac{9}{20}$
B. $\frac{20}{41}$
C. $\frac{3}{20}$
D. $\frac{41}{20}$
Ans: A

66. What are the shortcut keys to paste the copied text?
A. Ctrl + C
B. Ctrl + X
C. Ctrl + V
D. Ctrl + P
Ans: C

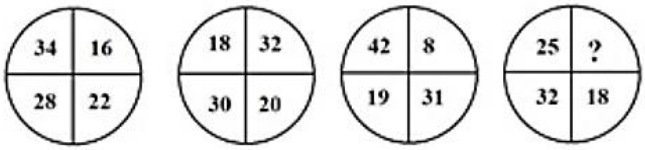
67. As of October 2020, Kim Jong-un is the Supreme Leader of which country?
A. Japan
B. North Korea
C. China
D. South Korea
Ans: B

68. If the HCF and LCM of two numbers are 8 and 160 respectively, then the sum of the numbers is:
A. 72
B. 80
C. 74
D. 70
Ans: A

69. Kenduli Fair is celebrated in _____.
A. Rajasthan
B. Madhya Pradesh
C. West Bengal
D. Uttar Pradesh
Ans: C



70. The next Kumbh mela at Ujjain will be held in which year?
A. 2022
B. 2030
C. 2028
D. 2025
Ans: C
71. If 20% of A is equal to 25% of B, then 28% of A is equal to what percent of B?
A. 35
B. 30
C. 53
D. 25
Ans: A
72. Sunita is the sister of Sohan. Ramesh is the father of Rakesh. Sohan is the son of Rakesh. How is Ramesh related to Sunita?
A. Maternal Grandfather
B. Paternal Grandfather
C. Mother's Brother
D. Father's Brother
Ans: B
73. Study the given pattern carefully and select the number from among the given options that can replace the question mark (?) in it.



A. 20
B. 18
C. 16
D. 25
Ans: D
74. Who is the author of the book 'Why I Am a Hindu'?
A. Salman Rushdie
B. Chetan Bhagat
C. Shashi Tharoor
D. Bhisham Sahni
Ans: C
75. Who used the term 'United Nations' first time?
A. Winston Churchill
B. Franklin D Roosevelt
C. Joseph Stalin
D. Vladimir Lenin
Ans: B

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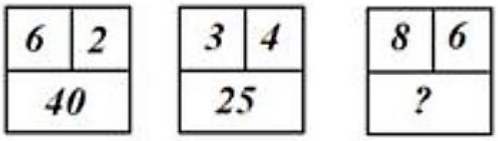
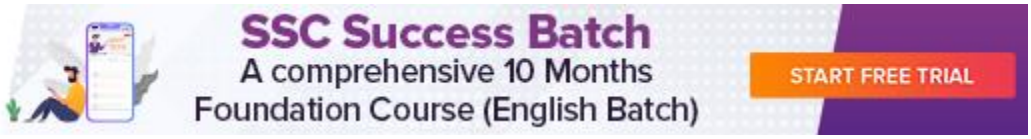
76. A train running at 70 km/h passes a person riding parallel to the railway line moving in the opposite direction in 2 seconds. If the rider goes in the same direction, the train takes 5 seconds to pass him. What is the speed of the rider?
A. 30 km/h
B. 40 km/h
C. 10 km/h
D. 20 km/h
Ans: A
77. The average weight of an adult human heart is about:
A. 255 gm
B. 300 gm
C. 390 gm
D. 240 gm
Ans: B

78. The sum of 3% of a number and 2% of the other number is equal to $\frac{3}{4}$ of the sum of 3% of the first number and 5% of the second number. The ratio of the 1st number to 2nd numbers is:
A. 3 : 5
B. 3 : 7
C. 7 : 3
D. 3 : 4
Ans: C
79. If 65 × 65 = 4225, then the value of 6.5 × 6.5 = ?
A. 42.25
B. 42025
C. 422.5
D. 0.004225
Ans: A
80. Study the given pattern carefully and select the number that can replace the question mark (?) in it.



A. 25
B. 28
C. 100
D. 14
Ans: C



81. Find the value of $777\frac{1}{5} + 777\frac{2}{5} + 777\frac{3}{5} + 777\frac{4}{5}$.

A. 3110
B. 3018
C. 3000
D. 3108
Ans: A

82. If A = $\frac{2}{3}$B and B = $\frac{1}{3}$C, then find the value of A : B : C is _____.

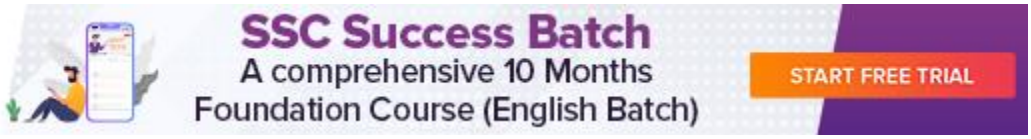
A. 1 : 3 : 9
B. 3 : 9 : 2
C. 2 : 3 : 9
D. 9 : 3 : 2
Ans: C

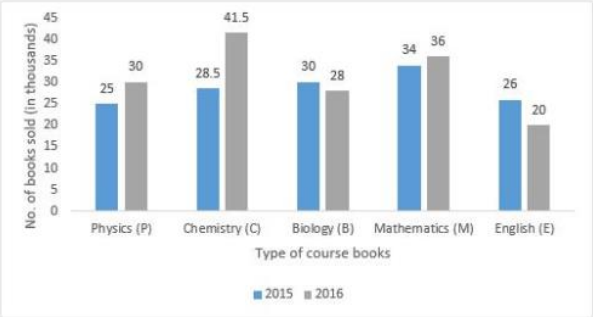
83. Who was the first Governor-General of independent India?
A. BR Ambedkar
B. C Rajagopalachari
C. Sardar Patel
D. Lord Mountbatten
Ans: D

84. The Indian Council of Medical Research has launched the 'Malaria Elimination Research Alliance (MERA) India' in order to prioritise, plan and scale up research to eliminate malaria from India by the year:
A. 2020
B. 2035
C. 2030
D. 2025
Ans: C

85. The dance form 'Chharhi' has originated from the state of:
A. Bihar
B. West Bengal
C. Himachal Pradesh
D. Mizoram
Ans: C

88. The following bar graph shows the total number of course books for five subjects, Physics, Chemistry, Biology, Mathematics and English (in thousands), sold by a printing company in 2015 and 2016. Based on the graph answer the question given below.



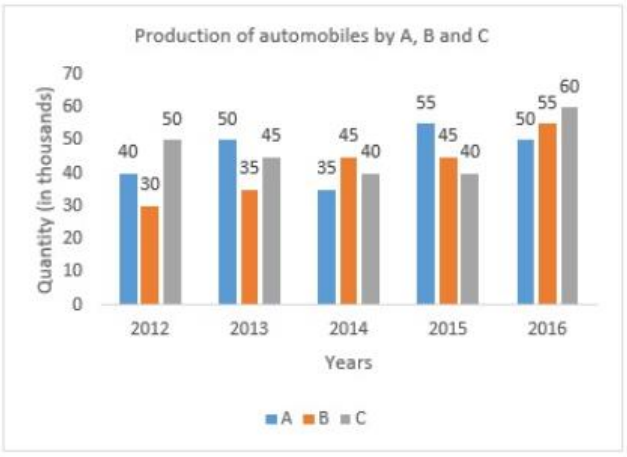


Find the percentage of the numbers of Mathematics books sold in 2015, to that of the number of English books sold in 2016.

A. 200%
B. 150%
C. 100%
D. 170%

Ans: D

87. The following bar graph shows the production of automobiles (in thousands) by three branches, A, B and C, of an automobile company over 5 years. Based on the graph answer the question given below.



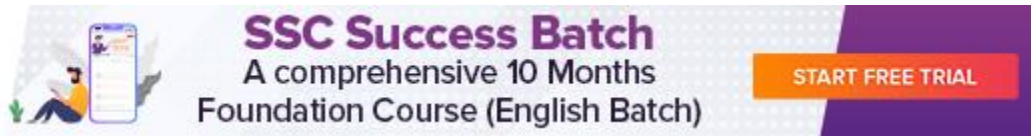
What is the percentage increase in the production of automobiles by branch B from 2012 to 2015?

A. 100%
B. 50%
C. 40%
D. 25%

Ans: B

88. The following table shows the number of students who had appeared for the SSC exam from five different states of India, over 5 years. Based on the table answer the question given below.

States / Years	A.P	U.P	M.P	Punjab	Kerala



2012	410	300	250	280	440
2013	500	400	280	320	400
2014	450	450	240	260	350
2015	320	500	400	400	380
2016	500	430	540	350	420

What is the ratio of the total number of students who had appeared for the exam from U.P. in 2013 and 2014 combined, to those who had appeared from M.P. for the same period?

A. 15 : 7

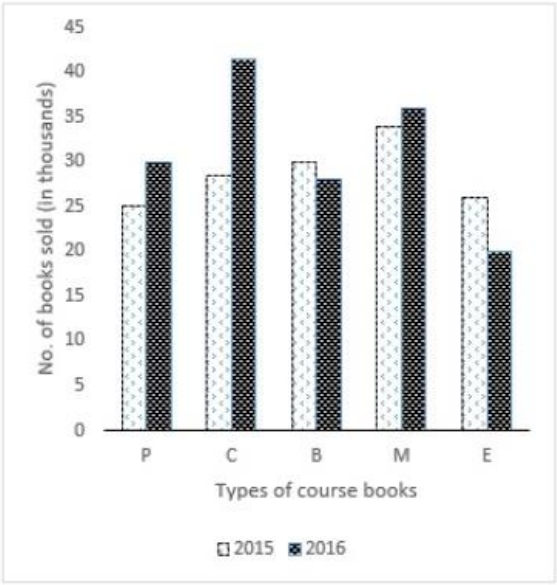
B. 43 : 51

C. 85 : 52

D. 2 : 6

Ans: C

89. The following bar graph shows the total number of course books for five subjects, Physics 'P', Chemistry 'C', Biology 'B', Mathematics 'M' and English 'E' in thousands), sold by a printing company in 2015 and 2016. Based on the graph answer the question given below.



Which of the following statements regarding the graph shown above is NOT true?

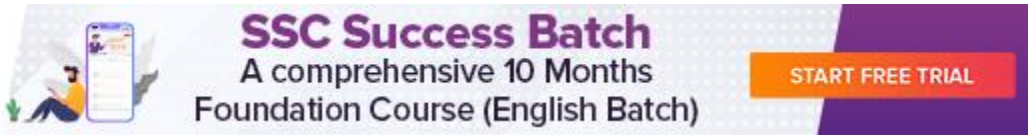
A. Sales of Physics, Chemistry and Mathematics books was higher in 2016 as compared to 2015

B. Sales of Chemistry books has seen the highest growth amongst all subjects.

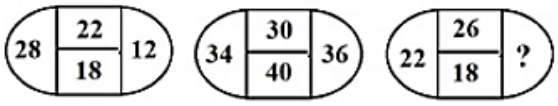
C. Combined sales of Biology books for 2015 and 2016 is lesser than that of English books.

D. Sales of Biology and English books was higher in 2015 as compared to 2016.

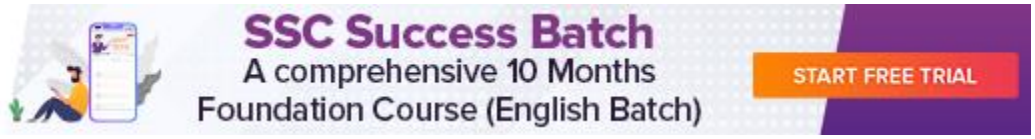
Ans: C



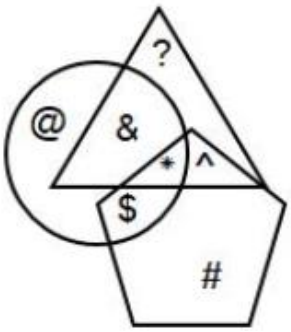
90. Select the odd pair of words from the following options.
A. Hot : Cold
B. Maximum : Minimum
C. Depart : Arrive
D. Drink : Eat
Ans: D
91. Study the given pattern carefully and select the number that can replace the question mark (?) in it.



A. 28
B. 22
C. 12
D. 32
Ans: B
92. Only one of the following groups of words is related to each other in some consistent manner. Identify the odd one out.
A. Pencil, Laptop, Geyser
B. LCD TV, Broom, Hammer
C. Screwdriver, Eraser, Mobile phone
D. LEDs, Bulbs, Tubelight
Ans: D
93. A word arrangement machine, when given an input line of words, rearranges them in steps according to the following rules.
INPUT LINE : Trial Today Gym in the She as
Step I: as Trial Today Gym in the She
Step II: as Gym Trial Today in the She
Step III: as Gym in Trial Today the She
Step IV: As Gym in She Trial Today the
Step V: As Gym in She the Trial Today
Step VI: As Gym in She the Today Trial
What will be 'Step III' of the input line, 'to Ball on at the small Do', if the same machine is employed?
A. at to Ball small the on Do
B. Do on at to Ball the small
C. Do to small the at Ball on
D. at Ball to on Do the small
Ans:



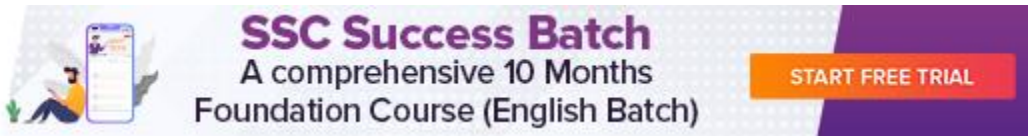
94. In the given diagram, the circle represents 'doctors', the triangle represents 'actors' and the pentagon represents 'gentlemen'. Which of the following symbol(s) represent(s) those 'gentlemen' who are 'actors'?



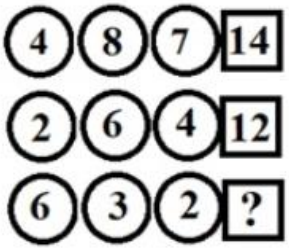
A. * ^
B. ^ # *
C. ^
D. ^ #
Ans: A

95. Read the given statements, labelled Assertion (A) and Reason (R), and select the most appropriate option with respect to them.
Statements:
A. Deforestation is undesirable because of its heavy impact on soil erosion. R. Erosion of soil from the surface due to heavy and intense precipitation is accelerated due to the cutting of trees on a mass scale.
A. Both statements 'A' and 'R' are true but 'R' is not the correct explanation of 'A'.
B. Both statements 'A' and 'R' are true and 'R' is the correct explanation of 'A'.
C. Both statements 'A' and 'R' are false.
D. Statement 'A' is true but statement 'R' is false.
Ans: B

96. Select the number from among the given options that can replace the question mark (?) in the following series.
20, 90, 210, 380, ?
A. 600
B. 550
C. 620
D. 410
Ans: A



97. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

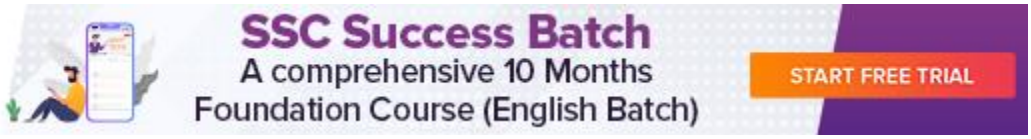


A. 10
B. 6
C. 8
D. 1
Ans: D

98. Four options have been given, out of which three are alike in some manner and one is different. Select the odd one.
A. KPLO
B. AZBY
C. UVFE
D. FUGT
Ans: C

99. Select the option that is related to the fourth term in the same way as the first term is related to the second term.
Song : Listener :: ? : Viewer
A. Movie
B. Actor
C. Bike
D. Novel
Ans: A

100. In a certain code language, "LANGUAGE' is written as 'HWJCQWCA'. How will "CODE' be written as in the same coding language?
A. AKLM
B. YKZA
C. AKBA
D. KYAZ
Ans: B



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