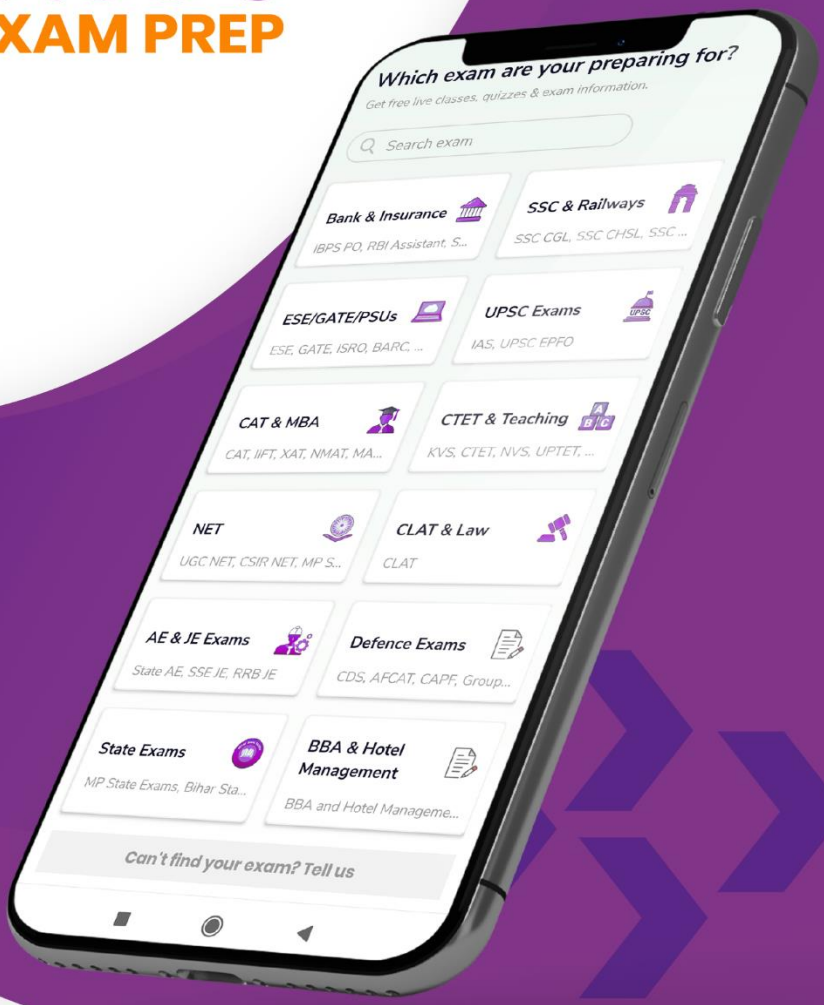
BYJU'S EXAM PREP



RRB NTPC 2019 CBT 1 Paper 6 Apr 2021 Morning Shift

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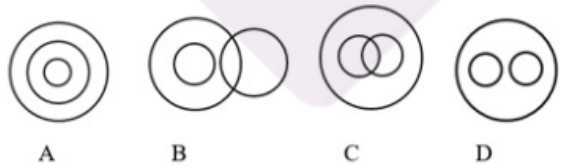
6 April 2021 Morning Shift

1. In a right circular cylinder, the ratio of the curved surface area to the total surface area is 2 : 5. Find the ratio of the height to the radius of the cylinder.
A. 3 : 4
B. 2 : 5
C. 5 : 3
D. 2 : 3
Ans: D

2. For a frequency distribution, mean, median and mode are connected by the relation:
A. mean = (3 median – mode)/2
B. mean = 2/ (3 median – mode)
C. mean = (3 median – 2 mode)/2
D. mean = (3 median + mode)/2
Ans: A

3. In Oct 2020, NASA named the Cygnus Spacecraft after the astronaut _____.
A. Sunita Williams
B. Kalpana Chawla
C. Ravish Malhotra
D. Rakesh Sharma
Ans: B

4. Select the Venn diagram that best represents the relationship between the following classes.
Peacock, Sparrow, Bird



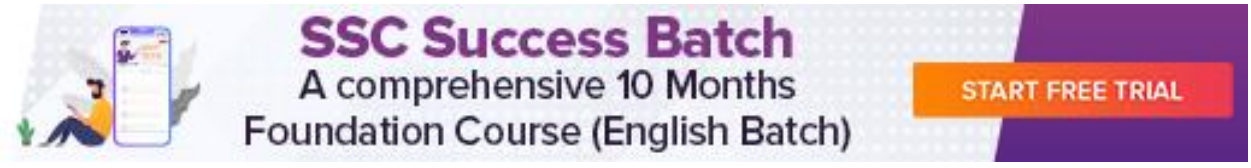
A. C
B. A
C. D
D. B
Ans: C

5. How many schedules are there in Wildlife Protection Act, 1972 of India?
A. VII
B. V
C. IV
D. VI

6. If A and B are acute angles such that tan A = cot B, then the value of A + B is:
A. 90°
B. 0°
C. 360°
D. 180°
Ans: A

7. If a sum of money doubles itself in 10 years, then the rate of simple interest is:
A. 10%
B. 20.50%
C. 10.50%
D. 20%
Ans: A

8. Which is the award instituted by the Government of India for individuals or communities from rural areas who have shown extraordinary courage and dedication in protecting wildlife?
A. Sunderlal Bahuguna Award
B. Sanjay Gandhi Paryavaran Award
C. Amrita Devi Bishnoi Award
D. BP Pal Award
Ans: C



9. If a : b = 2 : 5, b : c = 5 : 8, c : d = 8 : 11, then a : d is:
A. 3 : 5
B. 5 : 8
C. 2 : 11
D. 2 : 7
Ans: C

10. Select the number that can replace the question mark (?) in the following series.
3, 6, 5, 12, ?, 24, 11, 48, 13
A. 9
B. 7
C. 6
D. 8
Ans: B

11. The number $0.\overline{13}$ in the form of $\frac{p}{q}$ is equal to:
A. $\frac{99}{13}$
B. $\frac{39}{99}$
C. $\frac{13}{99}$
D. $\frac{31}{99}$
Ans: C

12. Which of the following IITs has been declared one among the seven Eat Right Campus by FSSAI?
A. IIT Ropar
B. IIT Delhi
C. IIT Kanpur
D. IIT Gandhinagar
Ans: D

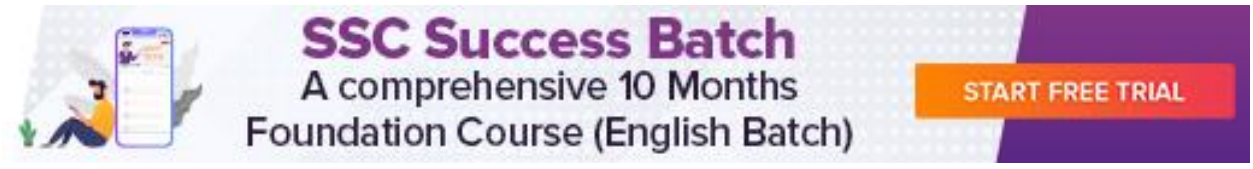
13. Which type of soil covers most of the Deccan Plateau?
A. Red soil
B. Yellow soil
C. Black soil
D. Alluvial soil
Ans: C

14. The product of two positive numbers is 972 and their quotient is $\frac{4}{3}$. The numbers are:
A. 26 and 27
B. 36 and 27
C. 26 and 36
D. 46 and 56
Ans: B

15. Rudreswara Temple or Veyisthambala Gudi (thousands pillars temple) was built by Rudra Deva. Which dynasty does Rudra Deva belong to?
A. Chola
B. Chalukya
C. Kakatiya
D. Pallav

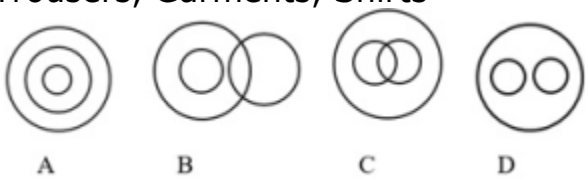
16. If '>' denotes '+', '<' denotes '–', '+' denotes '+', '^' denotes '×', '–' denotes '=', '=' denotes '<' and '×' denotes '>', then which of the following equations is correct?
A. 7 + 7 > 7 = 8
B. 7 > 7 < 7 + 7 = 14
C. 7 < 7+ 7 = 6
D. 7 ^ 7 > 7 + 7 = 7
Ans: B

17. Which Navratna company is fondly called Vizag steel?
A. Bokaro Steel Plant
B. Rashtriya Ispat Nigam Limited
C. Rourkela Steel Plant
D. IISCO Steel Plant
Ans: B



18. Which vitamin activates proteins and calcium essential for blood clotting?
A. Vitamin K
B. Vitamin D
C. Vitamin C
D. Vitamin B1
Ans: A

19. Select the Venn diagram that best represents the relationship between the following classes.
Trousers, Garments, Shirts



A. A
B. D
C. C
D. B
Ans: B

20. Select the letter that can replace the question mark (?) in the following series.
C, A, E, C, G, ?
A. H
B. G
C. E
D. J
Ans: C

21. What was the first computer created by JW Mauchly and J Presper Eckert with NO mechanical parts?
A. Mark II
B. EDVAC
C. Mark I
D. ENIAC
Ans: D

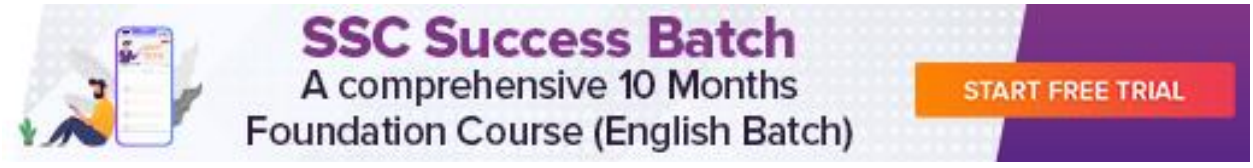
22. If the selling price of 10 pens is equal to the cost price of 15 pens, then the gain per cent is:
A. 40%
B. 60%
C. 70%
D. 50%
Ans: D

23. Famous 'Sangai Festival' is an annual cultural festival organized by which state of North-East India?
A. Nagaland
B. Manipur
C. Tripura
D. Meghalaya
Ans: B

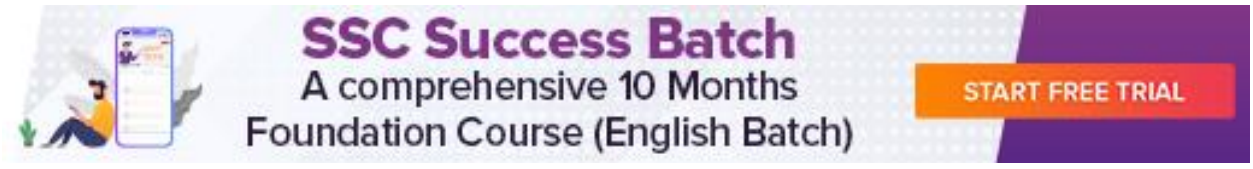
24. According to the _____, Indian rulers were not allowed to have their independent armed forces by the East India Company.
A. subsidiary alliance system
B. policy of paramountcy
C. doctrine of lapse
D. divide and rule policy
Ans: A

25. The length of a rectangular solar panel is 5% more than its breadth. If the area of the solar panel is 210 m^2, find its breadth.
A. 210 m
B. $20\sqrt{2}$ m
C. $10\sqrt{2}$ m
D. 10 m
Ans: B

26. What is the approximate contribution of mica in the formation of the earth's crust?
A. 12%
B. 24%
C. 4%



D. 8%
Ans: C
27. Which of the following options gives the correct chronological history of India?
P- Gupta Kingdom
Q- Mauryan Empire
R- Mughals
S- Delhi Sultanate
A. Q, P, S, R
B. Q, P, R, S
C. S, P, Q, R
D. P, Q, S, R
Ans: A
28. The _____ range practically forms the boundary between North and South India.
A. Sahyadri
B. Shivalik
C. Himadri
D. Vindhya
Ans: D
29. On which day is World Day to Combat Desertification and Drought observed?
A. 5th June
B. 22nd April
C. 17th June
D. 22nd May
Ans: C
30. Government of India decided to Celebrate the birthday of _____ as "Parakram Diwas" every year.
A. Deen Dayal Upadhyaya
B. Subhash Chandra Bose
C. Swami Vivekananda
D. Vir Sawarakar
Ans: B
31. Who among the following publishes the 'Economic Survey'in India?
A. NITI Aayog
B. Ministry of Finance
C. Central Statistical Organisation
D. The Reserve Bank of India
Ans: B
32. The negative of a non-zero rational number is:
A. surd
B. zero
C. a rational number
D. an irrational number
Ans: C
33. Which country will host the Asian Cup Football tournament in 2023?
A. India
B. China
C. Japan
D. South Korea
Ans: B
34. The third proportional of 10 and 20 is:
A. 40
B. 200
C. 10
D. 20
Ans: A
35. The value of $\sqrt{(10+\sqrt{(200+\sqrt{(596+\sqrt{841})})})}$ is:
A. $5\sqrt{3}$
B. $5\sqrt{2}$
C. $5\sqrt{5}$
D. $5\sqrt{1}$
Ans: D



36. If '>' denotes '+', '<' denotes '—', '+' denotes '+', '^' denotes 'x', '–' denotes '=', '=' denotes '<' and 'x' denotes '>', then which of the options is correct?
A. 4 > 6 + 2 × 32 + 4 < 1
B. 14 + 7 > 3 = 6 + 3 > 2
C. 8 < 4 + 2 = 6 > 3
D. 6 + 3 > 8 = 4 + 2 < 1
Ans: C

37. The Moplah Rebellion took place between the years:
A. 1921-1922
B. 1914-1915
C. 1923-1924
D. 1917-1919
Ans: A

38. The Chipko movement was related with:
A. human rights
B. freedom struggle
C. women's rights
D. environment protection
Ans: D

39. Which one of the following triplets can be measures of the sides of a triangle?
A. 1, 2, 4
B. 11, 3, 7
C. 1, 1.5, 3
D. 5, 7, 4
Ans: D

40. Article 51A containing Fundamental Duties was inserted by which constitutional amendment?
A. 44th Amendment
B. 42nd Amendment
C. 74th Amendment
D. 73rd Amendment
Ans: B

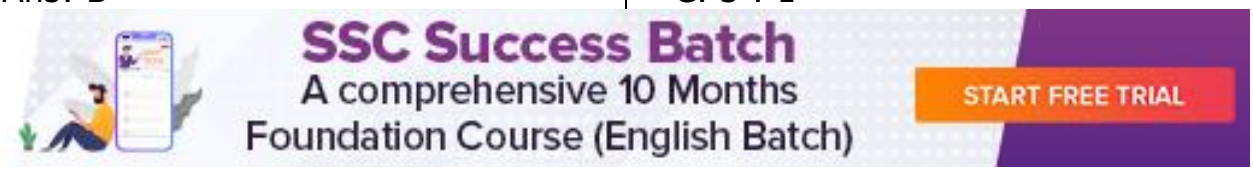
41. 'Horse' is related to Cart in the same way as _____ is related to 'Car'.
A. Engine
B. Wheel
C. Steering
D. Brake
Ans: A

42. Who has been sworn in as the new Chief Minister of Uttarakhand in March, 2021?
A. Satpal Maharaj
B. Tirath Singh Rawat
C. Trivendra Singh Rawat
D. Dhan Singh Rawat
Ans: B

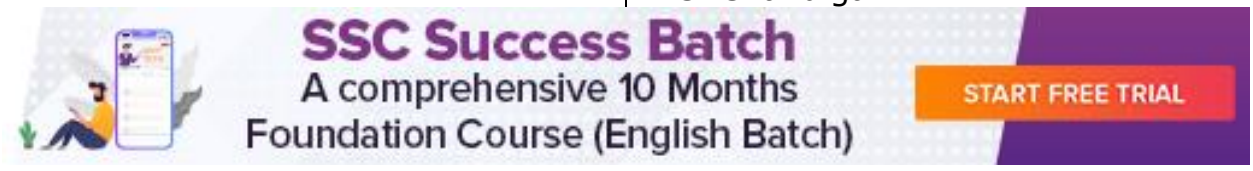
43. A train, 100 m long, is running at a speed of 64 km/h. Find the time taken by it to pass a man who is running at 8 km/h in the direction opposite to that of the train.
A. 15 sec
B. 64 sec
C. 10 sec
D. 5 sec
Ans: D

44. Pulakeshin II was the most illustrious ruler of which dynasty?
A. Hoysala
B. Kakatiya
C. Pandya
D. Chalukya
Ans: D

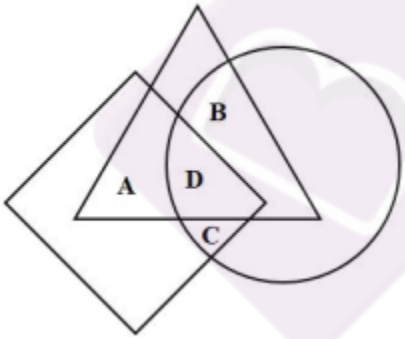
45. Two parallelograms are on equal bases and between the same parallels. The ratio of their areas is:
A. 2 : 1
B. 1 : 1
C. 3 : 1



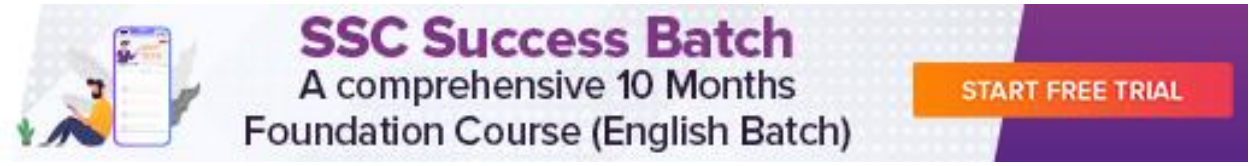
D. 1 : 2
Ans: B
46. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.
Statements:
I. Some cups are plates.
II. All plates are trays.
Conclusions:
I. Some cups are trays.
II. All trays are cups.
A. Only conclusion I follows.
B. None of the conclusions follows.
C. Only conclusion II follows.
D. Both conclusions I and II follow.
Ans: A
47. If among four numbers, the second is thrice of the first, the third is four times the second, the fourth is five times the third, and the mean of the four numbers is 1900, then the smallest number is:
A. 6000
B. 1200
C. 50
D. 100
Ans: D
48. What is the duration of the term of a Rajya Sabha MP?
A. Five years
B. Four years
C. Two years
D. Six years
Ans: D
49. If the radius of a sphere is tripled, then its surface area is increased by:
A. 800%
B. 400%
C. 300%
D. 900%
Ans: D
50. 1 gigabyte is equal to how many megabytes in binary?
A. 1002
B. 3004
C. 2015
D. 1024
Ans: D
51. What is the least number, which, when divided by 45 and 55 leaves a remainder of 3 in each case?
A. 625
B. 498
C. 825
D. 2475
Ans: B
52. Ravi took a loan of Rs.16,000 for one year at 20% interest p.a. compounded quarterly. The amount that Ravi has to pay after one year is:
A. Rs.19,448.10
B. Rs.38,896.20
C. Rs.12,784.25
D. Rs.48,897.30
Ans: A
53. In March 2021, which of the following Indian State Union Territory has announced that it will bid for 2048 Olympics?
A. Tamilnadu
B. Delhi
C. Chandigarh



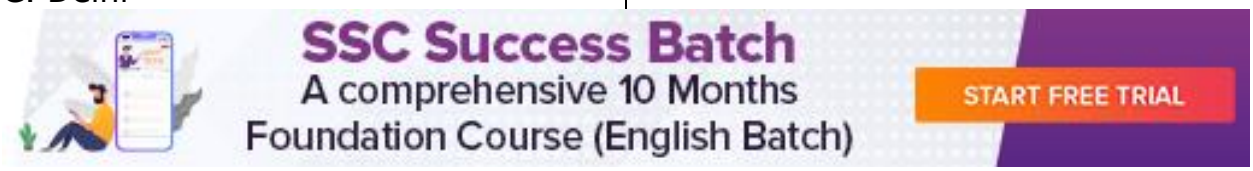
D. Andhra Pradesh
Ans: B
54. Who was the Prime Minister of India when 'rolling plans were introduced in India?
A. Rajiv Gandhi
B. Indira Gandhi
C. Morarji Desai
D. Lal Bahadur Shastri
Ans: C
55. In a certain code language, ALIGATOR is written as LAROGITA. How will COMPUTER be written as in that language?
A. RETUPMOC
B. PMOCRETU
C. OCPMTURE
D. OCREPMTU
Ans: D
56. In the following diagram square represents students, circle represents hard workers and triangle represents urban people. Find the region that represents hard working students who are not urban.



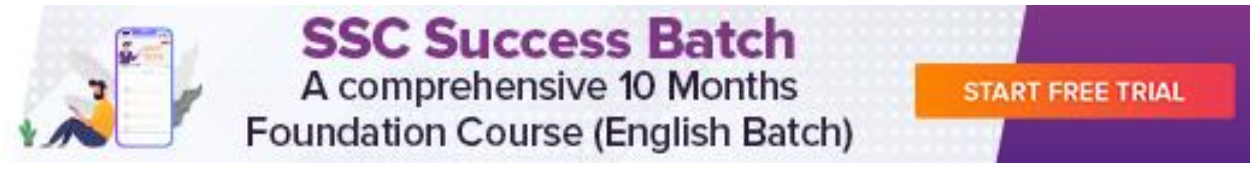
A. C
B. D
C. A
D. B
Ans: A
57. Which of the following temples was built by the Pallava rulers?
A. Konark Sun temple
B. Lingaraja temple
C. Dilwara temple
D. Kanchipuram Kailashnath temple
Ans: D
58. The largest four-digit number which is exactly divisible by 77 is:
A. 6993
B. 9933
C. 9977
D. 9693
Ans: B
59. Who was the protem speaker of the 17th Lok Sabha?
A. JP Nadda
B. Om Birla
C. Virendra Kumar
D. Sumitra Mahajan
Ans: C
60. 36 men can do a task in 25 days. If the task is to be finished in 60 days, then the number of men required are:
A. 30
B. 15
C. 20
D. 25
Ans: B
61. If x% of y is 2000 and 1% of z is 4000, then the relation between x and z is:
A. $z = 2x$
B. $z + 2 = x$
C. $z = \frac{x}{2}$
D. $z - 2 = 1$



62. Indian Standard Time is determined taking the meridian of longitude 82.5° East as the standard meridian that passes close to _____.
A. Allahabad
B. Nashik
C. Nagpur
D. Indore
Ans: A
63. In a certain code language, SWEET is written as SZEHT and SALTY is written as SDLWY. How will SPICY be written in that code language?
A. SSIFY
B. SQIEY
C. SRJGZ
D. STKFY
Ans: A
64. Which of the following is NOT based on the Archimedes' Principle?
A. Designing of aeroplane wings
B. Designing of ships and submarines
C. Hydrometers
D. Lactometers
Ans: A
65. The value of $9.377 - [3 + 0.5 (3.1 - 2.3 \times 1.02)]$ is:
A. 3.79
B. 3.77
C. 6
D. 6.3
66. In which of the following cities did Maharaja Jai Singh II NOT build the Jantar Mantar?
A. Allahabad
B. Varanasi
C. Delhi
D. Jaipur
Ans: A
67. Out of the four materials listed, three are alike in some manner and one is different. Select the odd one.
A. Blanket
B. Bedsheet
C. Sari
D. Quilt
Ans: C
68. Which of the following is correct?
A. $\frac{2\tan 30}{1 - \tan^2 30} = \tan 60$
B. $1 - \cos^2 a - \sin^2 a = 0$
C. $9\sec^2 a - 9\tan^2 a = 2$
D. Both $1 - \cos^2 a - \sin^2 a = 0$ and $\frac{2\tan 30}{1 - \tan^2 30} = \tan 60$
Ans: D
69. 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:
No door is window.
No window is table.
Conclusions:
I. Some tables are not doors.
II. No door is a table.
A. Only conclusion I follows.
B. Both conclusions I and II follow.
C. None of the conclusions follows.
D. Only conclusion II follows.



Ans: C
70. Which electric device is NOT based on Joule's law of heating?
A. Fuse used in an electric circuit
B. Electric iron
C. Electric kettle
D. Electric plugs and switches
Ans: D
71. Which of the following is NOT a correct statement?
A. Hydrochloric acid creates an acidic medium to facilitate the action of the enzyme pepsin
B. The stomach receives the secretion of the liver and pancreas
C. Gastric glands release hydrochloric acid and the enzyme pepsin and mucus in the stomach
D. Mucus protects the inner lining of the stomach from the acid
Ans: C
72. A steamer goes downstream and covers the distance between two ports in 6 h. It covers the same distance upstream in 8 h. If the speed of the stream is 3 km/h, then the speed of the streamer in still water is:
A. 10 km/h
B. 21 km/h
C. 10.375 km/h
D. 20.5 km/h
Ans: B
73. The ratio of the HCF to the LCM of the numbers $\sqrt{64}$ and 16 is:
A. 1 : 2
B. 1 : 4
C. 1 : 1
D. 2 : 1
Ans: A
74. The "10 Degree Channel" is related to _____.
A. Andaman and Nicobar islands
B. Gulf of Kachch
C. Malabar Coast
D. Lakshadweep islands
Ans: A
75. Eight persons A, B, C, D, E, F, G and H are sitting around a circular table facing towards the centre (not necessarily in the same order). C is third to the right of G. A and B are not neighbours of C or G. D is third to the left of A. Only two persons sit between D and E. F is second to the right of E. Who is to the immediate left of A?
A. F
B. B
C. H
D. E
Ans: C
76. If $\frac{\sqrt{7}-1}{\sqrt{7}+1} - \frac{\sqrt{7}+1}{\sqrt{7}-1} = a + b\sqrt{7}$, then the values of a and b are:
A. $a = 0$ and $6 = \frac{(-2)}{3}$
B. $a = 0$ and $b = 0$
C. $a = -\frac{3}{2}$ and $b = \sqrt{7}$
D. $a = \sqrt{7}$ and $b = \frac{-2\sqrt{7}}{3}$
Ans: A
77. Who wrote the book Words of Freedom: 'Ideas of a Nation'?
A. Jawaharlal Nehru
B. B. R. Ambedkar
C. Rabindranath Tagore
D. Subhash Chandra Bose



Ans:

78. When 30% of a number is added to another number, the second number becomes 140% of itself. The ratio of the first number to the second number is:

A. 2 : 4
B. 3 : 2
C. 1 : 3
D. 4 : 3

Ans: D

79. Which is not a web browser from the following?

A. Opera
B. Mozilla Firefox
C. Google
D. Safari

Ans: C

80. Which of the following is used in the treatment of cancer?

A. An isotope of uranium
B. An isotope of cobalt
C. An isotope of copper
D. An isotope of iodine

Ans: B

81. Select the option in which the words do NOT share the same relationship as that shared by the rest.

A. Touch : Push
B. Run : Walk
C. Cut : Scratch
D. Punch : Tap

Ans: A

82. Which of the following indemnity levels has been provided under the 'Pradhan Mantri Fasal Bima Yojana'?

A. Four indemnity levels – 50%, 65%, 80% and 90%
B. Five indemnity levels – 50%, 60%, 70%, 80% and 90%
C. Three indemnity levels – 70%, 80% and 90%
D. Two indemnity levels – 50% and 75%

Ans: C

83. If $x^4 + \frac{1}{x^4} = 6239$, and $x > 0$, then the value of $x + \frac{1}{x}$ is:

A. 9
B. 10
C. $\frac{1}{\sqrt{12}}$
D. $\sqrt{6239}$

Ans: A

84. What kind of organisation is NATO (North Atlantic Treaty Organization)?

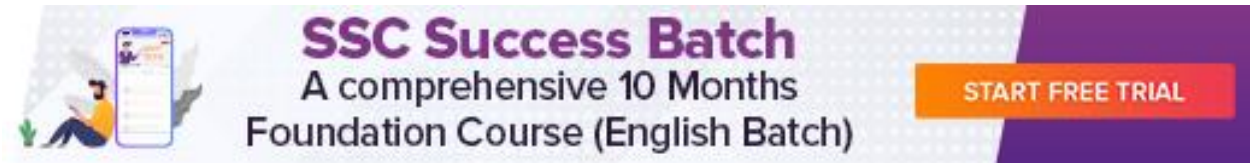
A. Technology Exchange and Development group
B. Intergovernmental Economic Cooperation group
C. Cultural Cooperation and Development Organization
D. Intergovernmental Military Alliance

Ans: D

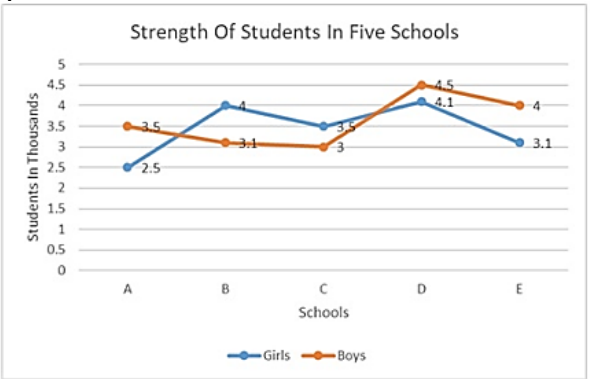
85. If one-ninth of one-eighth of one-seventh of one-fifth of one-fourth of one-third of one-half of a number is 32, then the number is:

A. 2345789
B. 9875432
C. 1935360
D. $\frac{æ32 ö}{ç 9 ÷ø}$

Ans: C



Directions (86-87) Study the following graph and answer the question that follows.



86. Which of the following statements is TRUE?
A. The strength of boys is higher than girls in 4 of the 5 schools.
B. There are 900 more girls than boys across all schools.
C. There are 900 more boys than girls across all schools.
D. The strength of girls is higher than boys in 3 of the 5 schools.
Ans: C

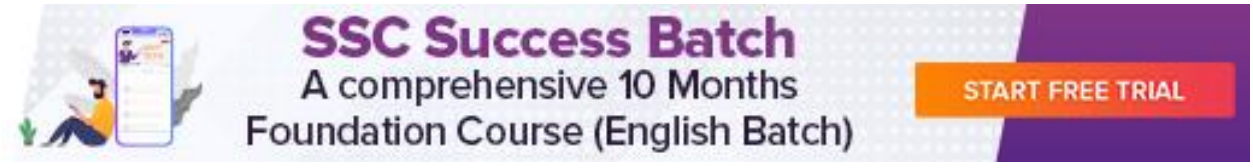
87. In which of the schools is the number of boys 40% more than the number of girls?
A. B
B. D
C. E
D. A
Ans: D

Directions (88-89): Study the following graph and answer the question that follows. (Amount in Crore Rs.)

88. Which of the following years has recorded the highest ratio of Exports to Imports?
A. 2014
B. 2017
C. 2013
D. 2016
Ans: C

89. What is the difference between the total Export and Import during the period 2013 to 2015?
A. Rs.18 crore
B. Rs.12 crore
C. Rs.20 crore
D. Rs.15 crore
Ans: D

90. Consider the given statement and decide which of the given assumptions is/are implicit in the statement.
Statement:
Advertising can be a good strategy to increase the sales of a company.
Assumptions:



I. It enables a wider range of people to know about the products of the company.
II. Everyone who knows about the products of the company will buy them.
A. Only Assumption I is implicit.
B. Both Assumptions I and II are implicit.
C. Only Assumption II is implicit.
D. None of the Assumptions are implicit.
Ans: A

91. Study the following information and answer question that follows.
Among six students, Anil and Bhupesh are from Subhash house while the rest belong to Shekhar house. Danish and Farooq are tall while the others are short. Anil, Charu and Danish wear glasses while the others do not
Which student of Subhash house is short and wears glasses?
A. Charu
B. Bhupesh
C. Anil
D. Ekant
Ans: C

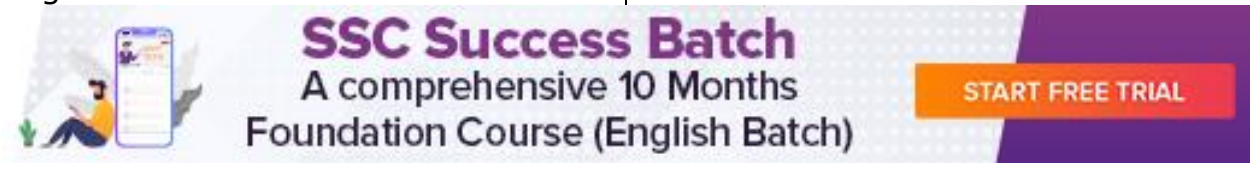
92. Six bags A, B, C, D, E and F are kept one above another (not necessarily in the same order). Only three bags are kept between B and D. Bag A is kept above E but below C. There are only two bags between A and F. B is kept above D. D is not kept below F.
If we re-arrange these bags in alphabetical order from top to bottom, then position of how many bags will remain same?
A. One
B. Two
C. Zero
D. Three
Ans: A

93. Select the combination of letters that when sequentially placed in the blanks will create a series.
ab_, ac_, ade, _ef, a_g
A. a, b, a, b
B. c, d, b, f
C. b, d, a, f
D. c, d, a, f
Ans: D

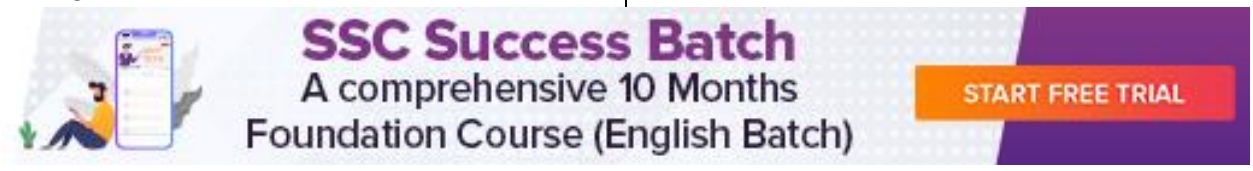
94. Select the number that can replace the question mark (?) in the following series.
86, 42, 22, 10, ?
A. 8
B. 10
C. 6
D. 4
Ans: C

95. Fish and Chip are Mother and son, respectively. Bird is granddaughter of Turtle. Frog and Crab are father and son, respectively. Turtle has only two children, Frog and Moth. If bird is the only child of her parents and Chip is the grandson of Turtle, how is Fish related to Frog?
A. Daughter
B. Wife
C. Brother's Daughter
D. Sister
Ans: B

96. In a certain code language, BOMBAY is written as DQODCA.



How will CALCUTTA be written as in that language?
A. EBNDWUUC
B. ECNEWVVC
C. DCOEXUUB
D. ECNEXWWC
Ans: B
97. Read the given information and answer the question that follows.
Sanjay and Neetu like Blue and Red colours. Priya and Neetu like Yellow and Blue colours. Sanjay, Manju and Kapil like Red and Blue colours. Neetu and Manju like Green and Blue colours.
Which colour is liked by the maximum number of people?
A. Red
B. Green
C. Yellow
D. Blue
Ans: D
98. Among four friends, A is twice as heavy as B. C is half of B's weight. D is 60 kg more as compared to B but 60 kg less as compared to A. Who is heaviest?
A. B
B. c
C. A
D. D
Ans: C
99. There are 48 students in a class. The number of girls is half of the number of boys. If Rashmi is a girl whose rank is 15^{th} from the top and five girls have better ranks than Rashmi, then Rashmi's rank is better than how many boys?
A. 26
B. 20
C. 30
D. 23
Ans: D
100. Select the number that can replace the question mark (?) in the following series.
600, 650, 702, ?, 812
A. 729
B. 760
C. 764
D. 756
Ans: D



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