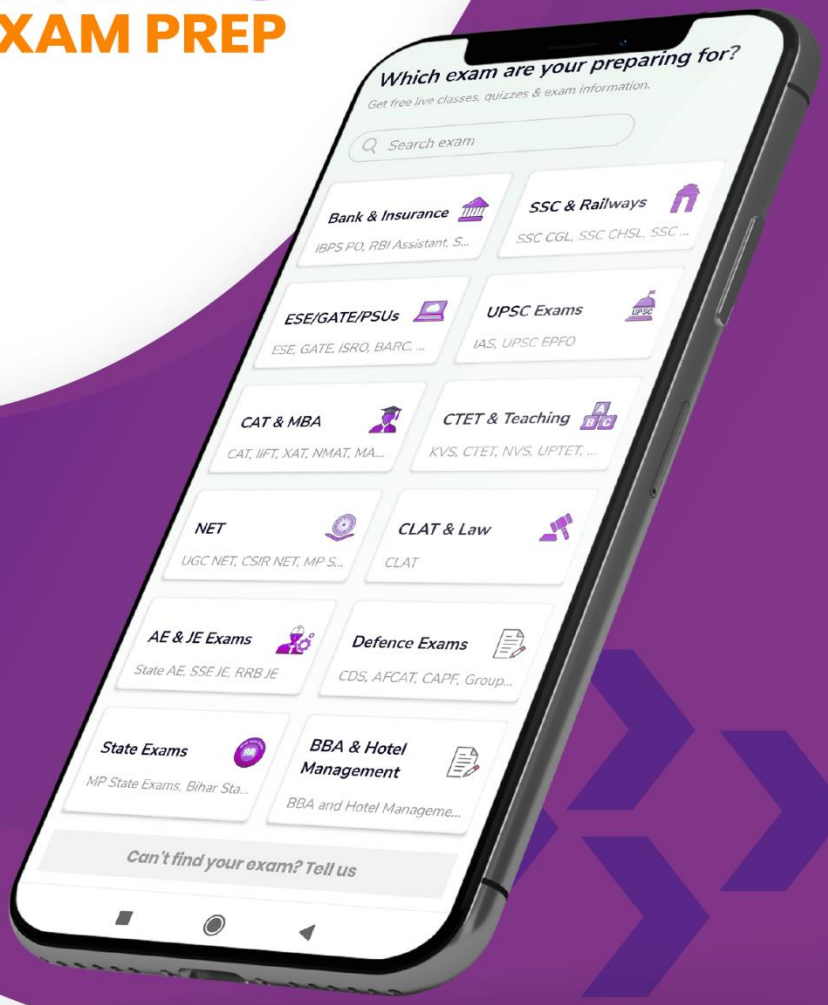
BYJU'S EXAM PREP




# RRB NTPC 2019 CBT 1 Paper 1 Apr 2021 Morning Shift

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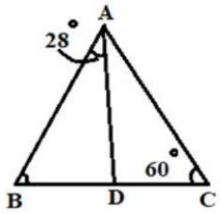
1. If $\frac{AB}{AC} = \frac{BD}{DC}$ then $\angle ABC$ is:



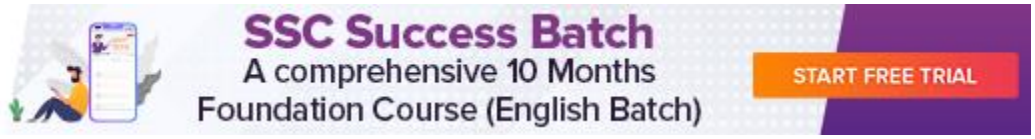

A. 92°
B. 32°
C. 64°
D. 74°
Ans: C

2. Against which act Mahatma Gandhi asked people to observe 6 April 1919 as a day of non-violence opposition?
A. Charter Act, 1813
B. Rowlatt Act
C. Arms Act
D. Vernacular press Act
Ans: B

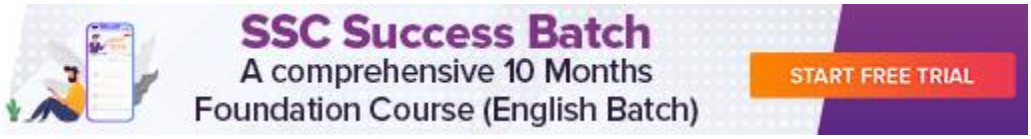
3. Simplify:
5 + 2 × 3 ÷ (3 × 2) × 3
A. 8
B. 17
C. $\frac{7}{6}$
D. $\frac{16}{3}$
Ans: A

4. Which of the following functions cannot be performed by NBFCs?
A. Providing loans
B. Making investments
C. Accepting demand deposits
D. Acquisition of shares
Ans: C

Q.5 If $\tan\theta = 1$ ($\theta$ an acute angle) then the value of $2\sin\theta\cos\theta - \text{cosec}^2\theta$ is:
A. –1
B. 1
C. –3
D. $1 - \sqrt{2}$
Ans: A



6. The Reserve Bank of India was established in:
A. 1935
B. 1947
C. 1950
D. 1919
Ans: A
7. An amount doubles itself on simple interest in 4 years. What is the per cent per annum rate of interest?
A. 50%
B. 25%
C. 12.5%
D. 100%
Ans: B
8. Which of the following is an example of man-made fibre?
A. Rayon
B. Silk
C. Linen
D. Jute
Ans: A
9. National Technology Day is observed every year to commemorate:
A. Operation Meghdoot
B. Operation Blue Star
C. Mangalyaan
D. Pokhran II
Ans: D
10. The name of the 1st electronic digital computer of the world is:
A. PARAM
B. PROLOG
C. UNIVAC
D. ENIAC
Ans: D
11. Which hormone regulates the blood sugar level in the body?
A. Testosterone
B. Insulin
C. Thyroid
D. Adrenaline
Ans: B



12. Two cars cover a certain distance by moving at speeds of 45 km/h and 50 km/h respectively. Find the distance travelled when one car takes 32 minutes more than the other to cover the distance.

A. $\frac{240}{19}$ km

B. $\frac{152}{3}$ km

C. $\frac{8}{3}$ km

D. 240 km

Ans: D

13. Who founded the Tattwabodhini Sabha to propagate Ram Mohan Roy's ideas?

A. K.C Sen

B. Rabindranath Tagore

C. Debendranath Tagore

D. Anandmohan Bose

Ans: C

14. A can complete a piece of work in 24 days. He worked for 21 days and then B finished the remaining work in 5 days. In how many days can A and B together finish the work?

A. 45 days

B. 40 days

C. 15 days

D. 24 days

Ans: C

15. Select the option that is related to the third term in the same way as the second term is related to the first term.

Bat : Cricket :: Stick : _____

A. Badminton

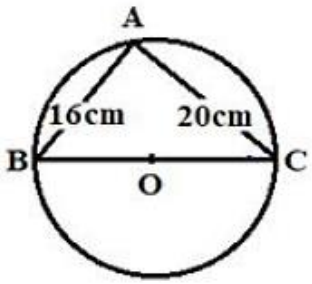
B. Basketball

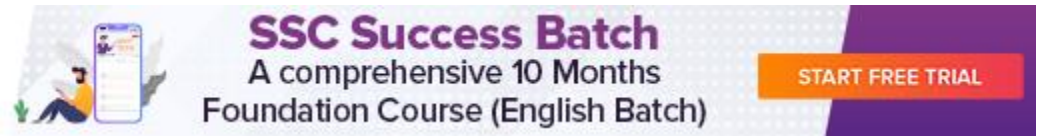
C. Tennis

D. Hockey

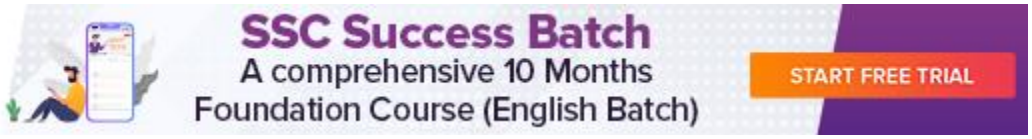
Ans: D

16. Find the area of $\triangle ABC$.

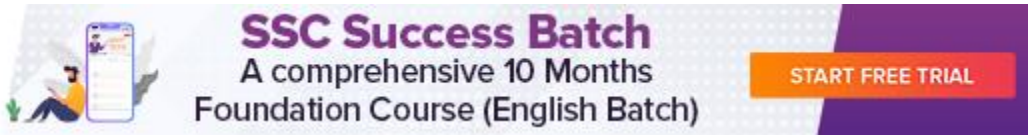


A. 32 $cm^2$
B. 160 $cm^2$
C. 320 $cm^2$
D. 240 $cm^2$
Ans: B
17. If (4y – 1) and (y + 4) both are factors of $py^2 + 15y – q$ then:
A. p = 4q
B. p = 9
C. $p = \frac{q}{4}$
D. p = –2
Ans: B
18. Simplify:
$4\sqrt{0.000081}$
A. 0.0018
B. 0.36
C. 0.0036
D. 0.036
19. Who mentioned Adhyakshas as the superintendents of different departments in the Mauryan administration?
A. Strabo
B. Kautilya
C. Megasthenes
D. Pliny
Ans: B
20. If circumference and area of a circle are numerically equal then radius of the circle is:
A. 4 units
B. 2 units
C. 16 units
D. 1 unit
Ans: B
21. Which river is associated with the Dhuandhar falls?
A. Tapi
B. Mahanadi
C. Narmada
D. Kaveri
Ans: C



22. Two numbers are in the ratio 3 : 2. If 8 and 6 are subtracted from the first and the second number respectively, the ratio becomes 8 : 5. The numbers are:
A. 3, 2
B. 24, 16
C. 40, 30
D. 32, 24
Ans: B
23. Which constitutional amendment, known as 'mini constitution', gave effect to the recommendations of Swaran Singh Committee?
A. 41st constitutional amendment
B. 44th constitutional amendment
C. 42nd constitutional amendment
D. 43rd constitutional amendment
Ans: C
24. Which of the following is used for calculating dearness allowance to government employees for increase in prices in India?
A. Statutory Liquidity Ratio (SLR)
B. Interest rate
C. Bank rate
D. Consumer Price Index Number for Industrial Workers (CPI-IW)
Ans: D
25. Vinaya and Sutta Pitaka are the compilations of whose teachings?
A. Gautam Buddha
B. Guru Gobind Singh
C. Rishabhdev
D. Mahavira Jaina
Ans: A
26. The concept of Bodhisattva is associated with:
A. Jainism
B. Sikhism
C. Mahayana Buddhism
D. Hinyana Buddhism
Ans: C
27. Find the value of x if, 20% of 75 = 225 – x% of 420.
A. 50
B. 3
C. 1535
D. 20
Ans: A



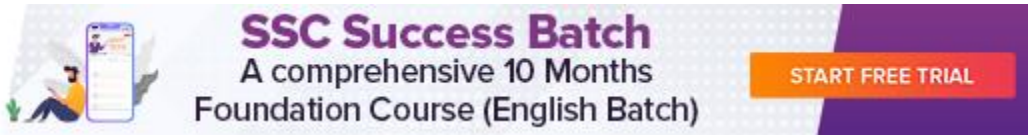
28. Six years from now, Kirti's age will be twice the age of her brother Kunal, but 4 years ago she was four times as old as Kunal was then. Find the present age of Kunal.
A. 9 years
B. 15 years
C. 30 years
D. 24 years
Ans: A

29. What is the difference between $\frac{3}{5}$ of 200 and $\frac{1}{2}$ of 300?
A. 100
B. 200
C. 60
D. 30
Ans: D

30. By which number should $2\frac{1}{5}$ be multiplied to get $5\frac{2}{5}$?
A. $2\frac{5}{11}$
B. $\frac{11}{27}$
C. 3
D. $3\frac{1}{5}$
Ans: A

31. Whose reign saw the largest extension of Delhi Sultanate?
A. Muhammad bin Tughluq
B. Alauddin Khilji
C. Sikandar Lodi
D. Gayasuddin Balban
Ans: A

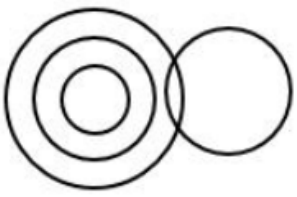
32. Which among the following is NOT a property of colloids?
A. Colloid cannot scatter a beam of light passing through it.
B. A colloid is a heterogeneous mixture.
C. They do not settle down when left undisturbed.
D. Due to too small size, individual particles cannot be seen with naked eyes.
Ans: A



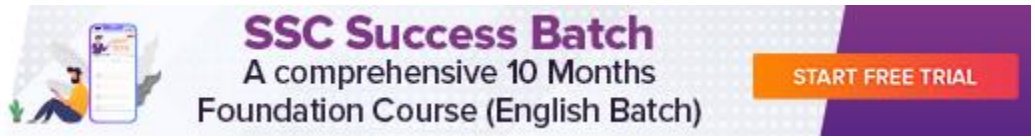
33. Find the least multiple of 7 which when divided by 6, 8 and 12 leaves 1 as remainder.
A. 25
B. 49
C. 73
D. 169
Ans: B
34. A sells an article to B at a profit of 20% and B sells it to C at a profit of 20%. If C pays Rs.360 for it, what was the cost price for A?
A. Rs.308
B. Rs.144
C. Rs.250
D. Rs.120
Ans: C
35. BuyUcoin has introduced the first Indian platform regarding wholesale trading for:
A. cryptocurrency
B. paper currency
C. plastic currency
D. gilt currency
Ans: A
36. Find the value of $\cos 222° + \cos 2\ 68°$

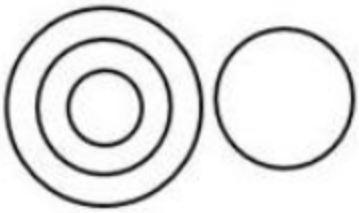
$\frac{\cos^2 22^o + \cos^2 68^o}{2(\sin^2 22^o + \sin^2 68^o)} - \sin^2 16^o - \cos 16° \sin 74°$

A. $-\frac{1}{2}$
B. 0
C. $\frac{3}{2}$
D. 2
Ans: A
37. Select the Venn diagram that best represents the relationship between the following classes.
Parallelogram, Rhombus, Square, Trapezoid
A.

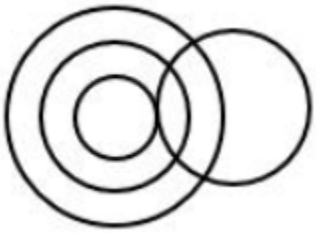


B.

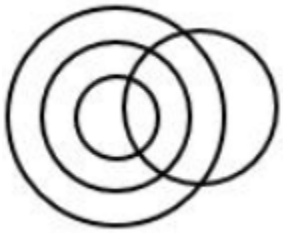




C.



D.



Ans: B

38. A bag contains cards numbered between 33 and 92. If one card is drawn from the bag, the probability that the number on the drawn card is a perfect square is:

A. $\frac{5}{59}$

B. $\frac{4}{59}$

C. $\frac{1}{15}$

D. $-\frac{1}{12}$

Ans: C

Q.39 LCM of 30, 40 and 45 is:

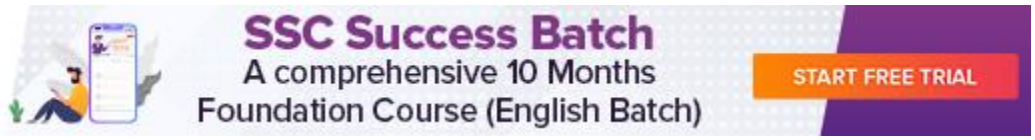
A. 115

B. 54000

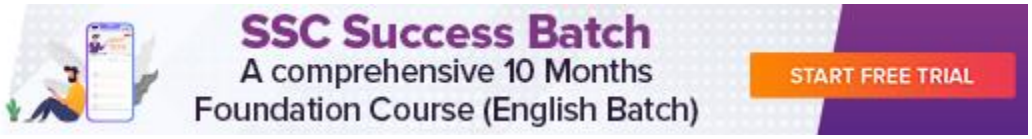
C. 5

D. 360

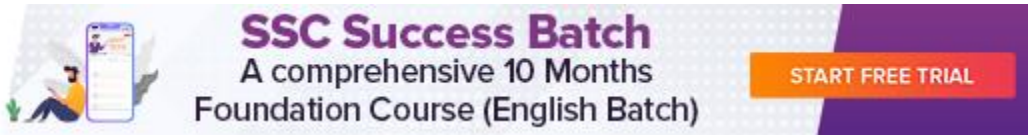
Ans: D



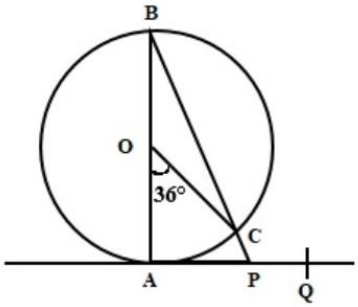
40. The device that uses ultrasonic waves to measure the distance, direction and speed of underwater objects is called:
A. SONAR
B. RADAR
C. CRO
D. MASER
Ans: A
41. Equatorial plane and Orbital plane are inclined to each other at which angle?
A. 23.5º
B. 66.5º
C. 13.5º
D. 67.5º
Ans: A
42. Who has been named as the leader of Opposition in Rajya Sabha in Feb 2021?
A. Anand Sharma
B. Rahul Gandhi
C. Mallikarjun Kharge
D. Ghulam Nabi Azad
Ans: C
43. Which district in Haryana has a nuclear power plant?
A. Fatehabad
B. Rohtak
C. Karnal
D. Sonipat
Ans: A
44. In what time will Rs.3,200 invested at 10% per annum compounded quarterly become Rs.3,362?
A. 2 years
B. $\frac{1}{2}$ year
C. $2\frac{1}{2}$ years
D. $\frac{1}{4}$ year
Ans: B



45. Name the type of nutrition in that the organism takes in nutrients in solution form from dead and decaying matters.
A. Insectivorous nutrition
B. Heterotrophic nutrition
C. Autotrophic nutrition
D. Saprophytic nutrition
Ans: D
46. A, B and C together can do a piece of work in 14 days, whereas C alone can do the same work in 42 days. How long will A and B together take to finish it?
A. 28 days
B. 35 days
C. 21 days
D. 7 days
Ans: C
47. Select the option that will fill in the blank and complete the given series.
7,9,13, 21, _____
A. 36
B. 30
C. 27
D. 37
Ans: D
48. Which of the following is an incorrect pair of abbreviation and its full form?
A. DBMS - Data Base Management System
B. URL - Uniform Reserve Locator
C. RAM - Random Access Memory
D. FAX - Facsimile
Ans: B
49. For a = –5 and b = 5, value of $a^2 - b^2$ is:
A. –10
B. 0
C. –50
D. 100
Ans: B



50. In the given figure, AB is the diameter of the circle. AP is a tangent to circle at A. Extended BC meets the tangent at P. ∠AOC = 36º. Find ∠BPQ.



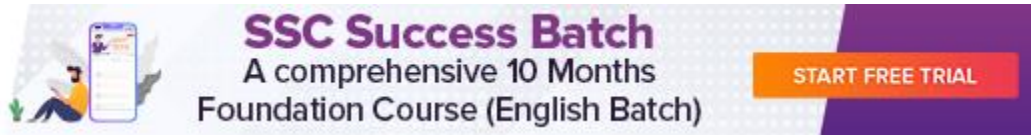

A. 72º
B. 54º
C. 108º
D. 126º
Ans: C

51. Select the letter cluster that will come next in the following series.
CHD, EJF, _____
A. GLH
B. GLG
C. GNH
D. GNG
Ans: A

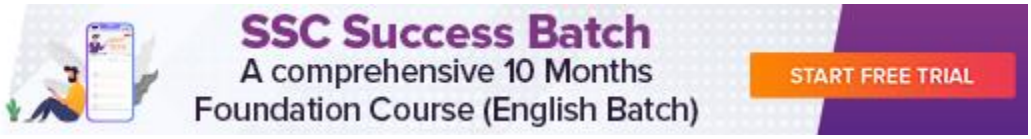
52. Select the alphanumeric term that will come next in the following series.
B7K, KB7, _____
A. 7KB
B. BK7
C. 7BK
D. K7B
Ans: A

53. Which among the following ports in India has been renamed as Deendayal Port?
A. Tuticorin
B. Mormugao
C. Cochin
D. Kandla
Ans: D

54. Select the option that shows the correct match of an organisation and its headquarters.
A. INTERPOL - Washington D.C
B. WHO - Paris
C. ESRO - Brussels
D. GATT - Geneva
Ans: D



55. What is the value of $8x^3 + 18xy + y^3 - 27$ when $2x + y - 3 = 0$.
A. –27
B. 27
C. 0
D. 1
Ans: C
56. Which of the following is NOT a Kharif crop?
A. Wheat
B. Jowar
C. Bajra
D. Paddy
Ans: A
57. Pradhan Mantri Shram Yogi Maan-dhan (PM-SYM) Yojana which was launched on 5th March 2019 is aimed at benefitting:
A. unorganised sector workers
B. government and public sector employees
C. private sector employees
D. organised sector workers
Ans: A
58. An attempt to obtain sensitive information such as username, password and credit card details, etc. for malicious reasons is termed as:
A. Phishing
B. Digging
C. Surfing
D. Netting
Ans: A
59. What is the name of Ganga cleanup program launched in 2014?
A. Clean Ganga Plan
B. Ganga Action Plan
C. Namami Gange
D. Ganga Cleanup Program
Ans: C
60. 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 boys are birds.
All birds are animals.
Conclusions:
I. Some boys are animals.
II. Some animals are boys.



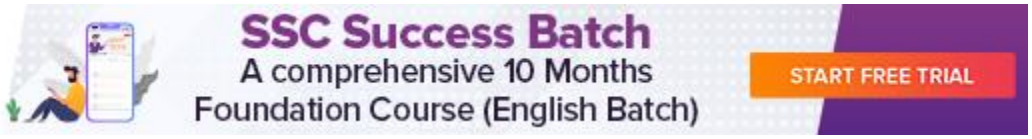
A. Only conclusion II follows
B. Only conclusion I follows.
C. Both conclusions I and II follow.
D. Neither conclusions I and II follow.
Ans: C

61. The natural aging of a lake by nutrient enrichment of its water is termed as:
A. Eutrophication
B. Extraction
C. Nutriphication
D. Denutriphication
Ans: A

62. Read the given statements and conclusions carefully and decide which of the conclusions logically follow(s) from the statements.
Statements:
A. Some boys are cricketers.
B. Some girls are cricketers.
Conclusions:
A. All girls are cricketers.
B. Some cricketers are girls.
A. Neither conclusions 1 nor 2 follows.
B. Only conclusion 1 follows.
C. Only conclusion 2 follows.
D. Both conclusions 1 and 2 follow.
Ans: C

63. P, Q, R, S, T, U and V are seven students in a class. They are compared on the basis of their height. T is shorter than S but taller than U. U is taller than P. R and Q are shorter than V but taller than S. Which of the following sequence of their height can be possible?
A. V > Q > R > T > S > U > P
B. V > R > Q > S > T > U > P
C. V > R > Q > U > I > S > P
D. V > Q > R > S > I > P > U
Ans: B

64. Two friends received a bonus of Rs.2,000 each in their bank accounts. They already have Rs.47,000 and Rs.54,000 in their respective bank accounts. Ratio of the amounts in their respective accounts will be:
A. 7 : 8
B. 47 : 56
C. 49 : 54
D. 47 : 54
Ans: A



65. Kings and Queens of black colour are taken out from a deck of 52 playing cards. A card is drawn from the remaining well-shuffled cards. Probability of getting a spade card is:

A. $\frac{1}{4}$

B. $\frac{11}{13}$

C. $\frac{11}{48}$

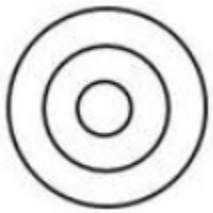
D. $\frac{11}{52}$

Ans: C

Q.66 Select the Venn diagram that best represents the relationship among the given set of classes.

Earth, Country, State

A.



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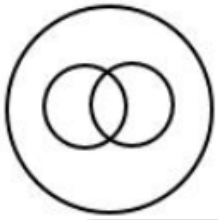
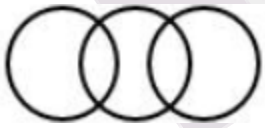
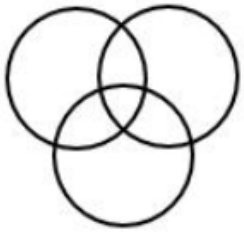


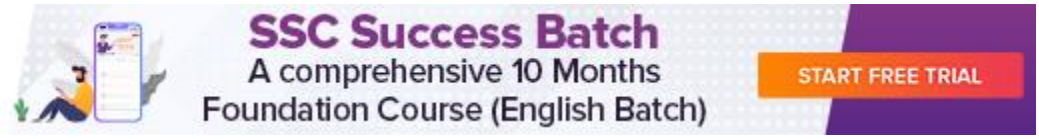
C.



D.



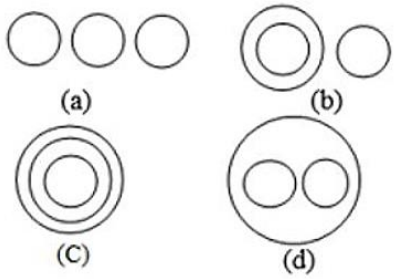
Ans: A



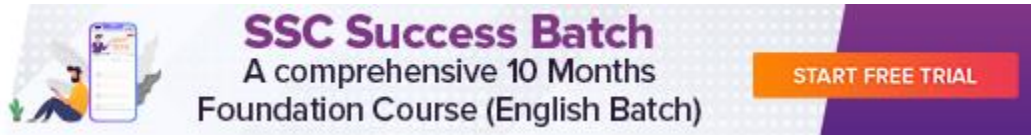
67. Who was the author of "The General Theory of Employment, Interest and Money" that laid the foundation of macroeconomics as a separate branch of economics?
A. John Maynard Keynes
B. Dr. Keegen Alen
C. Adam Smith
D. Dr. Philip Kotler
Ans: A
68. Who was the fourth President of India?
A. B. D. Jatti
B. Giani Zail Singh
C. Dr Zakir Husain
D. Varahagiri Venkata Giri
Ans: D
69. Simplify.

$$\frac{1800 \div (24 \div 8 \times 3) + 16}{\frac{3}{4} \times (32 \div 2)}$$

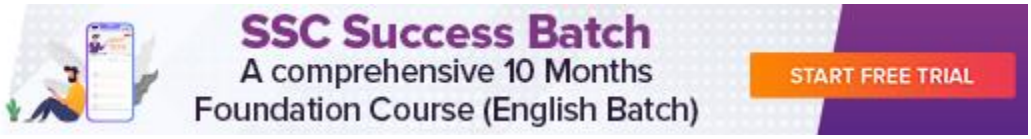
A. 18
B. $\frac{453}{3}$
C. $\frac{150}{17}$
D. $\frac{39}{4}$
Ans: A
70. Select the Venn diagram that best represents the relationship between the following classes:
Oxygen, Hydrogen and Gases.



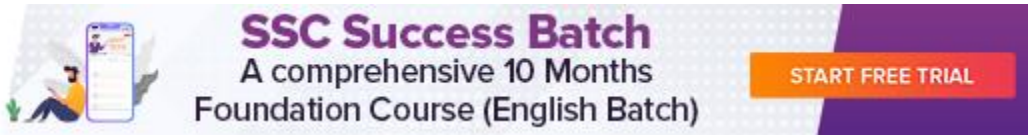

A. c
B. a
C. d
D. b
Ans: C



71. Out of the four words listed, three are alike in some manner and one is different. Select the odd one.
A. Africa
B. India
C. Australia
D. Europe
Ans: B
72. Which of the following is NOT a tributary of Krishna?
A. Ghatprabha
B. Manjira
C. Tungabhadra
D. Musi
Ans: B
73. Select the option that gives decimal numbers 0.25, 1.24, 0.0882 and 2.67 arranged in ascending order. Ans
A. 0.0882, 0.25, 1.24, 2.67
B. 0.25, 1.24, 0.0882, 2.67
C. 2.67, 1.24, 0.25, 0.0882
D. 1.24, 0.25, 2.67, 0.0882
Ans: A
74. Arun said "Deepak's mother is the mother of my father's wife". How is Deepak related to Arun?
A. Brother
B. Father's Brother
C. Grandfather
D. Mother's Brother
Ans: D
75. Which of the following does a Bandicoot refer to?
A. A telerobot for heart surgery
B. Humanoid
C. A security robot
D. A drainage-cleaning robot
Ans: D
76. A team of 5 members is to be selected from 6 men A, B, C, D, E and F and 6 women P, Q, R, S, T and U. C and U have to be selected together. If B is selected, then neither U nor can be selected. Among A, B, S and T exactly two persons are to be selected. If E is selected, then neither S nor B can be selected. If A is selected, then B will be selected. Which of the following is the correct selection of the team?
A. C, A, B, P, R
B. P, R, S, T, D
C. P, R, A, B, S
D. C, U, A, B, S
Ans: B



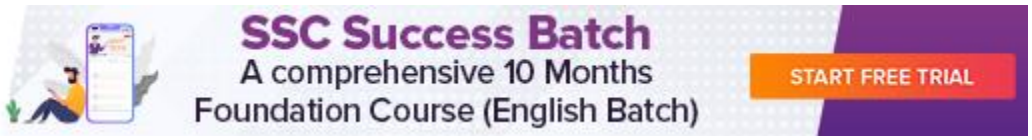
77. Below are fours pairs, each representing a state and a folk dance. Which pairing of state and folk dance is incorrect?
A. Assam - Bihu
B. Gujarat - Garba
C. Uttarakhand - Tapali
D. Chattisgarh - Dagla
Ans: C
78. Name the Punjabi Muslim, who was a student at Cambridge and who coined the term 'Pak-Stan' in 1933?
A. Chaudhary Rehmat Ali
B. Nusrat Fateh Ali
C. Khan Rehmad Khan
D. Amanat Ali
Ans: A
Q.79 If in a code language PRIME is written as KIRNV, then SPORT would be written as _____ in the same language.
A. HKLIG
B. GJLHF
C. GJKHF
D. HLLIG
Ans: A
80. To neutralise the effect of formic acid injected by ant bite, which among the following can be used?
A. Potassium carbonate
B. Calcium carbonate
C. Sodium bicarbonate
D. Sodium carbonate
Ans: C
81. Who has produced the indigenous LCA fighter jets Tejas?
A. Hindustan Aeronautics Limited
B. Bharat Dynamics Limited
C. India Aeronautics Limited
D. Hindustan Dynamics Limited
Ans: A
Q.82 The Government of India approved the National Policy for Farmers (NPF) in:
A. 2010
B. 2018
C. 2007
D. 2001
Ans: C



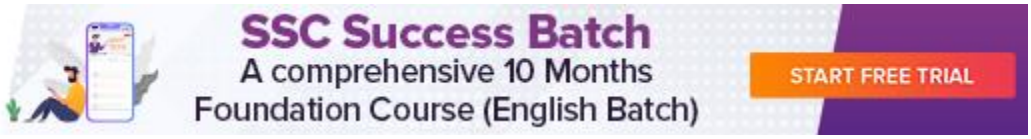
83. Select the option that will fill in the blank and complete the given series.
3, 4, 0, 9, −7, _____
A. 8
B. −32
C. 18
D. 7
Ans: C
Q.84
The total number of ministers, including the Chief Minister, in the council of ministers in a state CANNOT exceed _____of the total number of members of the legislative assembly of that State.
A. $\frac{1}{20}$
B. 3%
C. 15%
D. $\frac{1}{10}$
Ans: C
85. A fruit seller buys oranges at the rate of 12 for Rs.60. How many oranges should he sell for Rs.60 so as to gain 20%?
A. 9
B. 10
C. 11
D. 8
Ans: B
Direction (86-89): The given table shows the marks of various students in a class. Study the table and answer the question that follows.

| Marks (out of 50) | | | | | |
|---|---|---|---|---|---|
| Name of Students | Physics | Chemistry | Maths | English | Sanskrit |
| A | 48 | 47 | 49 | 46 | 44 |
| B | 29 | 33 | 22 | 15 | 30 |
| C | 35 | 36 | 42 | 40 | 29 |
| D | 46 | 49 | 48 | 48 | 40 |
| E | 32 | 30 | 25 | 21 | 22 |

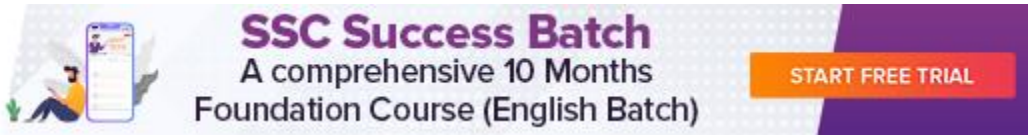
86. Which student got the lowest overall percentage of marks?
A. E
B. B
C. C
D. D
Ans: B



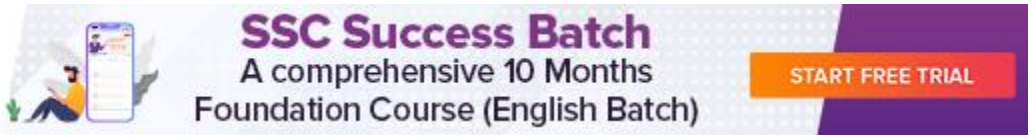
87. What is the maximum overall percentage (average of percentages obtained in all subjects by any student) of marks obtained by any student among A, B, C, D and E?
A. 93.40%
B. 93.60%
C. 92.60%
D. 92.40%
Ans: B
88. Which two students have the least difference of marks between them?
A. B and C
B. A and D
C. B and E
D. E and D
Ans: C
89. If we rank students on the basis of all five subjects and then we rank them only on the basis of physics, chemistry and maths then what will happen to the arrangement of ranks in both cases?
A. All ranks will be different.
B. The ranks will remain the same in both cases.
C. Only the top two ranks will be different.
D. Only the bottom two ranks will be different.
Ans: B
90. Select the option that is related to the third term in the same way as the second term is related to the first term.
Srilanka : Island :: India : ?
A. Asia
B. Ocean
C. Peninsula
D. Plateau
Ans: C
91. Six members MI, M2, M3, M4, M5 and M6 of a family are sitting in a row facing towards the north (not necessarily in the same order). M3 sits to the immediate right of M5 and second to the left of MI. M4 is second to the right of M2. M5 is not sitting at the ends of the row. Who are sitting at the ends of the row?
A. M6 and M3
B. M6 and M1
C. M6 and M4
D. M3 and M4
Ans: C



92. A man said to a woman, "Your husband's daughter is the daughter of my brother". How is the man related to the woman's daughter?
A. Mother's Brother
B. Brother
C. Father's Brother
D. Father
Ans: C
93. Pick the odd one out.
A. Nitrogen
B. Iron
C. Oxygen
D. Fluorine
Ans: B
94. Pick the odd one out.
A. Meter
B. Centimeter
C. Kilometer
D. Mile
Ans: D
95. How will you write 4.14 hours in hours, minutes and seconds?
A. 4 hours, 8 minutes, 4 seconds
B. 4 hours, 14 minutes
C. 4 hours, 8 minutes, 24 seconds
D. 4 hours, 10 minutes, 4 seconds
Ans: C
96. Select the letter cluster that will come next in the following series.
MNOP, HIJK, _____
A. CDEF
B. DEFG
C. BCDE
D. DEFC
Ans: A
97. If in a code language CRACKS is written as DQBBLR, then how would SPROUT be written in that same code language?
A. TOSPVU
B. TOSNVS
C. TQSNVS
D. TOSNVU
Ans: D



98. Select the option that will fill in the blank and complete the given series.
3, 4, 31, 156, _____
A. 372
B. 373
C. 500
D. 499
Ans: D
99. 6 women W1, W2, W3, W4, W5 and W6 lives in different hotel P, Q, R, S, T and W (not necessarily in the same order). No two women live in same hotel. One woman live in only one hotel. W4 does not live in hotel P or R. W3 and W6 live in S and W respectively. W1 does not live in T or R. W5 does not live in R or P.
Which of the following combination of woman and hotel is definitely true?
A. W2 – P
B. W5 – 1
C. W1 – P
D. W4 – 1
Ans: C
100. Select the option that is related to the third term in the same way as the second term is related to the first term.
Kilogram : Mass :: Kilometre : _____
A. Length
B. Speed
C. Force
D. Time
Ans: A



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