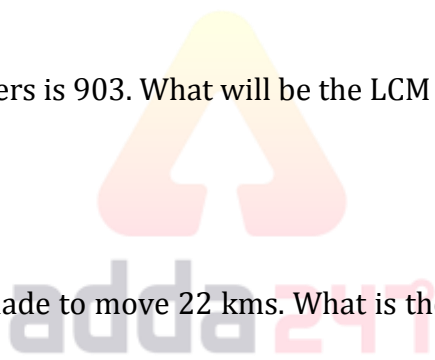


RRB JE Memory Based (Questions)

- The speed of a boat in still water is 13 kmph and the speed of current is 4 kmph. Find the time required to cover a distance of 162 km upstream by boat?
 - 17.5 hrs
 - 18 hrs
 - 16 hrs
 - 15 hrs
- The difference between compound interest and simple interest on a sum for 2 yrs is Rs 260. Find the sum if the rate of interest is 5%.
 - Rs 1400
 - Rs 1000
 - Rs 1040
 - Rs 2500
- Find the value of $\sin \frac{3\pi}{4} - \tan \frac{2\pi}{3}$
 - $\frac{1+\sqrt{6}}{\sqrt{2}}$
 - $1 + \sqrt{6}$
 - $\frac{1+\sqrt{3}}{\sqrt{2}}$
 - $\frac{1+\sqrt{2}}{\sqrt{3}}$
- On selling an article a shopkeeper incurred 15% loss. Had he purchased the article at a price 20% more than actual cost price, he would have lose Rs 105. Find the actual cost price.
 - Rs 200
 - Rs 350
 - Rs 250
 - Rs 300
- A sphere and a cylinder have same radius 'r'. If the height of the cylinder is '2r' then find the ratio of volumes of sphere and cylinder.
 - 2 : 3
 - 3 : 2
 - 2 : 5
 - 1 : 3

6. A, B and C can complete the work in 10, 15, 20 days respectively. They start working together and after 2 days B left the work. In how many days will the remaining work get completed ?
- (a) $3\frac{7}{8}$ days
 (b) $3\frac{7}{9}$ days
 (c) $4\frac{7}{9}$ days
 (d) $5\frac{4}{7}$ days
7. Find the value of $\sin \frac{5\pi}{4} \sin \frac{3\pi}{4} \sin \frac{\pi}{4}$
- (a) $\frac{1}{2\sqrt{2}}$
 (b) $-\frac{1}{2\sqrt{2}}$
 (c) $\frac{1}{2}$
 (d) $\frac{1}{3}$
8. A car travels 48 km in 4 hours, with constant speed. How much time will it take to travel 72 km.
- (a) 5 hours
 (b) 6 hrs
 (c) 7 hrs
 (d) 8 hrs
9. Product of two co-prime numbers is 903. What will be the LCM of these two numbers?
- (a) 301
 (b) 903
 (c) 49
 (d) 1806
10. A wheel of radius $\frac{7}{4}$ meters is made to move 22 kms. What is the number of revolutions made by the wheel.
- (a) 2200
 (b) 1000
 (c) 1800
 (d) 2000
11. A can do a work in 24 days, B can do in 16 days and C can do the same work in 12 days. In how many days will the work get completed if all of them work together (in days).
- (a) $5\frac{1}{3}$
 (b) $5\frac{7}{9}$
 (c) $4\frac{7}{9}$
 (d) $5\frac{4}{8}$
12. Find the LCM of reciprocals of 12 and 18?
- (a) $1/3$
 (b) $1/6$
 (c) $1/8$
 (d) $1/12$



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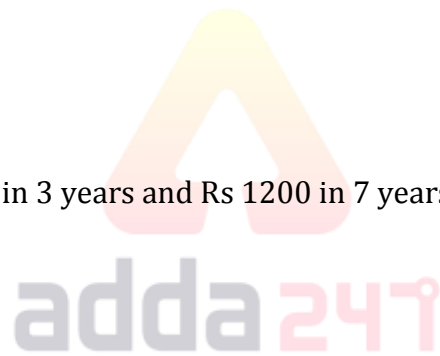
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BILINGUAL

13. $1299 \times 1299 = ?$
(a) 1687501
(b) 1687601
(c) 1687425
(d) 1687401
14. A man can travel a distance in t hours. By what percent, he has to increase his speed if he wants to travel the same distance in $\frac{3t}{4}$ hours.
(a) 38%
(b) 20%
(c) 25%
(d) $33\frac{1}{3}\%$
15. Two equal containers have a mixture of Milk and Water in the ratio 7:2 and 5:4. If the mixtures of both the containers are poured into one big container. What is the ratio of water to milk in new container?
(a) 5:4
(b) 4:1
(c) 3:2
(d) 1:2
16. What is the value of $\sqrt{37 + 20\sqrt{3}} - \sqrt{61 + 28\sqrt{3}}$?
(a) -1
(b) 1
(c) 2
(d) -2
17. A shopkeeper Sells an article at 20% profit. Had he bought it at 40% less and sold it at 40% profit, he would have earned Rs. 115 more. Find the cost price of the article. (in Rs.)
(a) 600
(b) 550
(c) 575
(d) 625
18. Find the value of θ if $\sin^2\theta - 3\sin\theta + 2 = 0$
(a) 0°
(b) 90°
(c) $0 \leq \theta < 90$
(d) $0 < \theta < 90$
19. An amount was lent for two years at the rate of 20% per annum compounding annually. Had the compounding been done half yearly, the interest would have increased by 241. What was the amount (in Rs) lent?
(a) 10000
(b) 12000
(c) 20000
(d) 24000

20. If $x^2 - 3x + 1 = 0$, then what is the value of $x^3 + \frac{1}{x^3}$?
- (a) 3
(b) 7
(c) 11
(d) 18
21. In a mixture, milk and water are in ratio of 2: 3. Some milk is added to the mixture because of which ratio of milk and water becomes 2 : 1. How much milk was added as a percentage of initial mixture?
- (a) 75
(b) 60
(c) 80
(d) 50
22. If $\tan \theta = \frac{5}{9}$, then what is the value of $\frac{5 \sin \theta + 9 \cos \theta}{5 \sin \theta - 9 \cos \theta}$?
- (a) 17/12
(b) - 53/28
(c) - 27/25
(d) 31/23
23. If $x + 4$ is a factor of $3x^2 + kx + 8$ then what is the value of k ?
- (a) 4
(b) -4
(c) -14
(d) 14
24. A certain sum becomes Rs 840 in 3 years and Rs 1200 in 7 years at simple interest. What is the value (in Rs.) of principal?
- (a) 520
(b) 570
(c) 620
(d) 670
25. If $\operatorname{cosec}^2 \theta + \cot^2 \theta = 7$, then what is the value (in degrees) of θ ?
- (a) 15
(b) 30
(c) 45
(d) 60
26. Two vessels of equal volume contain milk and water in the ratio 1:3 and 2:1. If they are mixed together, what is the new ratio?
- (a) 11:13
(b) 13:11
(c) 9:11
(d) 11:9
27. Find the value of $[(525+252)^2 - (525-252)^2] / (525 \times 252)$.
- (a) 3
(b) 4
(c) 5
(d) 6



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BILINGUAL

28. The area of a triangle is 456 sq. cm and its height is 24 cm. The length of its base is
(a) 32
(b) 36
(c) 34
(d) 38
29. Compute: $4082 \div 157 - 23$
(a) -3
(b) 3
(c) $2041/67$
(d) $2014/67$
30. 1.5 kg of sugar solution has 40% sugar in it. How much sugar (in kg) should be added to make it 50% in the solution?
(a) 0.5
(b) 0.45
(c) 0.3
(d) 0.25
31. In the following question, select the related word from the given alternatives.
Basketball : 5 :: Football : ?
(a) 6
(b) 8
(c) 12
(d) 11
32. In the following question, select the related letters from the given alternatives.
12 : 30 :: 20 : ?
(a) 40
(b) 44
(c) 42
(d) 41
33. In the following question, select the related number from the given alternatives.
5 : 124 :: 6 : ?
(a) 215
(b) 216
(c) 217
(d) 220
34. In the following question, select the odd word pair from the given alternatives.
(a) 4 : 8
(b) 9 : 27
(c) 49 : 2401
(d) 25 : 125
35. In the following question, select the odd letters from the given alternatives.
(a) FUGT
(b) KPLO
(c) DWEV
(d) CWDX

36. In the following question, select the odd number pair from the given alternatives.

- (a) 774
- (b) 333
- (c) 594
- (d) 203

37. In a certain code language, "NIGHT" is written as "ODDGM" and "DARK" is written as "GOYC". How is "GREEN" written in that code language?

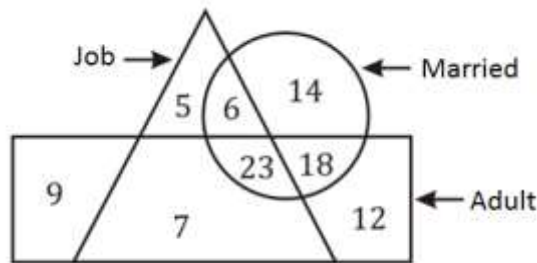
- (a) IABPF
- (b) MCBNB
- (c) OGHVL
- (d) FPBAI

38. In the following question, correct the equation by interchanging two signs.

$$4 \times 3 - 6 \div 2 + 7 = 8$$

- (a) - and +
- (b) x and -
- (c) ÷ and x
- (d) x and +

39. In the given figure, how many married adults?



- (a) 23
- (b) 18
- (c) 53
- (d) 41

40. If "÷" denotes "multiplied by", "+" denotes "subtracted from", "-" denotes "added to" and "x" denotes "divided by", then which of the following equation is true?

- (a) $16 + 19 \times 21 - 5 = 201$
- (b) $5 \times 6 + 4 \div 3 = 37/6$
- (c) $6 \times 3 + 12 \div 3 = 21$
- (d) $18 \times 6 \div 8 - 12 = 36$

41. In a certain code language, "PEN-TAN" is written as "0". How is "DEN-COB" written in that code language?

- (a) 8
- (b) 3
- (c) 9
- (d) 7

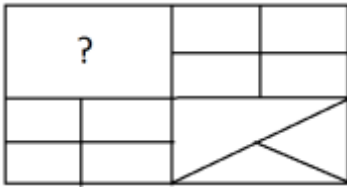
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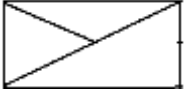
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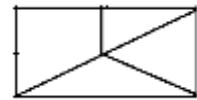
42. Which answer figure will complete the pattern in the question figure?



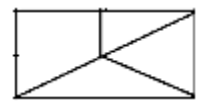
(a)



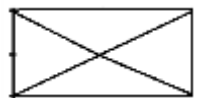
(b)



(c)



(d)



43. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

DK, FN, HQ, ?

(a) KS

(b) JT

(c) KT

(d) JS

44. In the following question, select the missing number from the given series.

2, 5, 17, 71, ?

(a) 131

(b) 247

(c) 359

(d) 419

45. If '+' means '-' and '-' means '×', '×' means '÷' and '÷' means '+' then $2 \div 6 \times 6 \div 2 = ?$

(a) 1 (b) 0

(c) 10

(d) 5

46. Ashok went 8 kms south and turned west and walked 3 kms. Again he turned north and walked 5 kms. He took a final turn to east and walked 3 kms. In which direction was Ashok from the starting point?

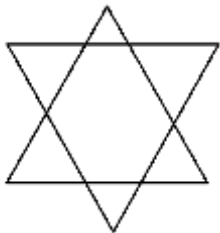
(a) East

(b) North

(c) West

(d) South

47. In the following question, select the missing number from the given series.
125, 13, 150, 39, 175, 117, 200, ?
 (a) 131
 (b) 351
 (c) 359
 (d) 419
48. A series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.
 5, 11, 17, 25, 33, 43, ?
 (a) 49
 (b) 51
 (c) 52
 (d) 53
49. Pointing towards a photo, Rakesh said, "She is the daughter of the only son of my grandfather." How is the girl related to Rakesh?
 (a) Sister
 (b) Daughter
 (c) Grand Daughter
 (d) Cousin
50. Rema walked 10kms south and turned right and walked 5kms. Then again, she turned right and walked 10kms. Then she turned left and walked 10kms. How many kms will rema have to walk to reach the starting point?
 (a) 25 km
 (b) 20 km
 (c) 5 km
 (d) 15 km
51. Find the number of triangles in following figure.



- (a) 10
 (b) 12
 (c) 8
 (d) 6

Direction (52-54): Read the following passage and answer the question based on it.

Five friends Ram, Shyam, Atul, Dev and Raj are sitting on a round table and all are facing outside. Atul is sitting third left to Ram and Shyam is sitting immediate left of Raj and immediate right of Atul.

52. Who is sitting immediate right to Dev?
 (a) Atul
 (b) Raj
 (c) Ram
 (d) Shyam

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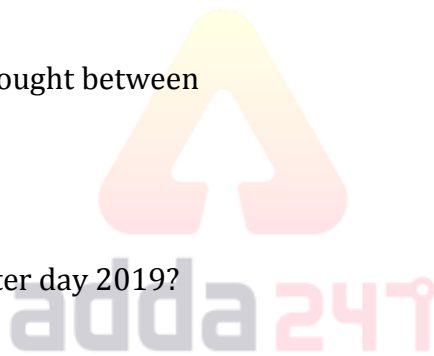
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53. Who is sitting between Ram and Shyam?
(a) Atul
(b) Raj
(c) Dev
(d) None of these
54. Who is second left of Raj?
(a) Atul
(b) Dev
(c) Ram
(d) Shyam
55. Eight people are sitting in two parallel rows containing five people each, in such a way that there is an equal distance between adjacent persons. There is one seat is vacant in each row. In Row – 1 P, Q, R and S are seated (but not necessarily in the same order) and all of them facing South. In Row – 2 A, B, C and D are seated (but not necessarily in the same order) and all of them facing North. Therefore, in the given seating arrangement each member seating in the row faces another member of the other row. A and the vacant seat sits diagonally opposite to each other and both of them are sitting at the ends of the row. D sits 2nd to the right of A. Q faces to D. S sits 3rd to the right of P. B sits 3rd to the right of C. Four of the five are alike in a certain way based on the given seating arrangement and thus form a group. Which is the one that does not belong to that group?
(a) S
(b) D
(c) R
(d) Q
56. Who is the author of the novel “The year of the runaways”?
(a) Sunjeev Sahota
(b) Virginia Woolf
(c) John Milton
(d) Rohinton Mistry
57. What is the rank of India in “Global Hunger Index” 2018?
(a) 100
(b) 103
(c) 108
(d) 98
58. The number of Lok Sabha seats(constituencies) in Punjab as per the latest election?
(a) 17
(b) 19
(c) 13
(d) 20
59. When was Capital shifted from Kolkata to Delhi ?
(a) 1857
(b) 1801
(c) 1911
(d) 1947

60. On the bank of which river, Tokyo is situated ?
(a) Shinano River
(b) Sumida River
(c) Ishikari
(d) Teshio
61. Where is floating national park located in India?
(a) West Bengal
(b) Mizoram
(c) Manipur
(d) Assam
62. Who founded the city of "Fatehpur sikri" ?
(a) Aurangzeb
(b) Babur
(c) Shahjahan
(d) Akbar
63. Which Chief Minister is popularly known as "Mama"?
(a) Nitish Kumar
(b) Shivraj Singh Chouhan
(c) Vijaybhai R Rupani
(d) Pema Khandu
64. The Battle of Wandiwash was fought between
(a) English & Dutch
(b) English & French
(c) English & Portugese
(d) French & Dutch
65. What is the theme of world water day 2019?
(a) Leaving no one behind
(b) Nature for Water
(c) Why Waste Water?
(d) Better Water, Better Jobs
66. Raghunandan Vasant Gokhle won the dronacharya award in 1986, he was associated with which game?
(a) Wrestling
(b) Boxing
(c) Athletics
(d) Chess
67. Which dam is situated on Krishna river?
(a) Nagarjun Sagar Dam
(b) Bhakra Dam
(c) Hirakud Dam
(d) Tehri Dam
68. The first Asian games were held at
(a) Indonesia
(b) New Delhi
(c) Tokyo
(d) Beijing



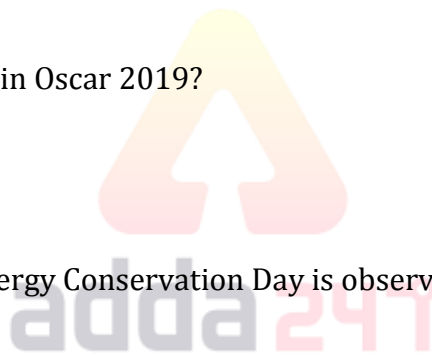
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69. Who was the last ruler of Maurya Dynasty?
(a) Brihadratha
(b) Bindusara
(c) Ashoka
(d) Chandragupta Maurya
70. Which President of India had the longest serving tenure?
(a) Sarvepalli Radhakrishnan
(b) Dr. Rajendra Prasad
(c) Giani Zail Singh
(d) Zakir Hussain
71. Who played the role of "Sonia Gandhi" in the movie "The Accidental prime minister"?
(a) Jacqueline fernandez
(b) Suzanne Bernert
(c) Giselle Monterio
(d) Alice Pattern
72. Where was the first cricket world cup held?
(a) England
(b) Australia
(c) South Africa
(d) India
73. Who won the best actor award in Oscar 2019?
(a) Brian May
(b) Ben Hardy
(c) Rami Malek
(d) Gwilym Lee
74. On which date, the National Energy Conservation Day is observed in India?
(a) 14th December
(b) 12th December
(c) 14th November
(d) 12th November
75. India is a democratic republic, because:
(a) There is independence of judiciary
(b) The Head of the State is elected by the people
(c) There is distribution of powers between the Centre and the States
(d) There is Parliamentary supremacy
76. Which acid is used in digestion
(a) Nitric acid
(b) Hydrochloric acid
(c) Hydroiodic acid
(d) Chloric acid
77. Solder used for welding electrical wires together it made of
(a) Lead and Tin
(b) Tin and Copper
(c) Zinc and Tin
(d) Iron and Tin



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78. C_2H_6O is also known as
(a) Methyl alcohol
(b) Acetic acid
(c) Benzene
(d) Ethyl alcohol
79. Who discovered that malaria was caused by a protozoan parasite?
(a) Oswald Avery
(b) Elizabeth Blackwell
(c) Charles Louis Alphonse Laveran
(d) Rachel Carson
80. Who discovered the vitamin C?
(a) Hendrick
(b) Albert Szent-Gyorgyi
(c) Roger J. Williams
(d) McCollum
81. Which of the following is man-made fibre?
(a) Cotton
(b) Wool
(c) Silk
(d) Nylon
82. PH Value of wine range between
(a) 2.5 to about 4.5 pH
(b) 0.5 to about 1.5 pH
(c) 6.5 to about 7.5 pH
(d) 1.5 to about 2.5 pH
83. Name of vitamin found in lemon.
(a) A
(b) C
(c) B
(d) K
84. SONAR stand for
(a) Solar Navigation Ranging
(b) Sound Navigation Rank
(c) Sound Navigation Ranging
(d) South Navigation Rank
85. Bauxite is ore of
(a) Iron
(b) Gold
(c) Lead
(d) Aluminum
86. ECG stand for
(a) Electrocardiogram
(b) Echocardiogram
(c) Electrocardiology
(d) Electriccardiogram



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BILINGUAL

87. Chemical formula of washing soda is
(a) Sodium bicarbonate
(b) Calcium hypochlorite
(c) Sodium carbonate
(d) Calcium sulphate hemihydrate
88. What is atomic number of Gold?
(a) 79
(b) 80
(c) 47
(d) 38
89. Valency of oxygen is
(a) 1
(b) 0
(c) 2
(d) 3
90. What is octet rule?
(a) The principle of attaining maximum of 8 electrons in the valence shell of atoms is called octet rule.
(b) The principle of attaining maximum of 7 electrons in the valence shell of atoms is called octet rule.
(c) The principle of attaining maximum of 5 electrons in the valence shell of atoms is called octet rule.
(d) The principle of attaining maximum of 4 electrons in the valence shell of atoms is called octet rule.
91. SI Unit of work
(a) Volt
(b) Joule
(c) Siemens
(d) Henry
92. Father of Genetics
(a) George Palade
(b) Aristotle
(c) Gregor Johann Mendel
(d) Delbruck
93. Name of acid used in car battery.
(a) Nitric acid.
(b) Sulfuric acid
(c) Hydrochloric acid.
(d) Perchloric acid.
94. Intensity of sound measure in
(a) Decibel
(b) Photometry
(c) Speedometer
(d) Ammeter.

95. Ranging between the PH value lemon juice is
(a) 5 to 8
(b) 5.5 to 7.5
(c) 2 to 3
(d) 0.5 to 1.5
96. SI unit of current
(a) Decibel
(b) Ampere
(c) Ohm
(d) Hertz
97. Blue colour of Glass is because of
(a) Manganese Dioxide
(b) Nickel Oxide
(c) Cobalt Oxide
(d) Cadmium Sulfide
98. During which phase of growth of *Penicillium chrysogenum* maximum antibiotic production takes place?
(a) During the first phase
(b) During the second phase
(c) During the third phase
(d) Same in all the phases
99. Nuclear sizes are expressed in a unit named
(a) Fermi
(b) Angstrom
(c) Newton
(d) Tesla
100. Mirage is due to
(a) Unequal heating of different parts of the atmosphere
(b) Magnetic disturbances in the atmosphere
(c) Depletion of ozone layer in the atmosphere
(d) Equal heating of different parts of the atmosphere



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