

Fireman 2005

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1. $(-1)^{000} = ?$
(a) +1 (b) -1 (c) 999 (d) -999
2. Simplify: $\frac{24a^6b^8c^4}{16a^3b^2c^{12}}$
(a) $\frac{3a^2b^4}{2c^3}$ (b) $\frac{3a^3b^6}{2c^8}$ (c) $\frac{3a^9b^{10}c^{15}}{2}$ (d) $\frac{3a^2b^4}{2c^6}$
3. $10 [2 + (20 \div 5) \times 3] - 10 = ?$
(a) 120 (b) 130 (c) 22 (d) 70
4. A train of 100 metres length is running at a speed of 72 km per hour. What time will it take to pass a man standing at the railway track?
(a) 6 seconds (b) 4 seconds (c) 10 seconds (d) 5 seconds
5. $(.01)^2 \times (.4)^3 =$
(a) 0.0016 (b) 0.016 (c) 0.00016 (d) 0.000016
6. A man deposits Rs. 500 in a bank. If he receives Rs. 1000 after 8 years, what is the rate of interest?
(a) 10% (b) $12\frac{1}{2}\%$ (c) $12\frac{1}{2}\%$ (d) $11\frac{1}{2}\%$
7. Express 30 paise as the percentage of Rs. 6.
(a) 5% (b) 6% (c) 7% (d) 4%
8. As lions roar, lambs:
(a) bleat (b) grunt (c) neigh (d) bark
9. When did the UN General Assembly adopt the Universal Declaration of Human Rights?
(a) January 26, 1950 (b) August 6, 1948
(c) December 10, 1948 (d) December 1, 1948
10. What is laughing gas?
(a) N_2O (b) HCl (c) CO (d) SO_2
11. In 2005, the World Mayors Conference was held in
(a) Delhi (b) Goa (c) Kanpur (d) Cochin
12. O.V. Vijayan was famous as a novelist and as a:
(a) Politician (b) Musician (c) Cartoonist (d) Sanyasi
13. Which element is the most abundant in the Solar system?
(a) Oxygen (b) Chlorine (c) Nitrogen (d) Hydrogen
14. In framing the Constitution of India ——— played the most formative role.
(a) Vallabha Bhai Patel (b) B.R. Ambedkar
(c) C. Rajagopalachari (d) Acharya Kripalani
15. The scientific study of beauty is called:
(a) Ethics (b) Synthesis (c) Aesthetics (d) Dialectics
16. The seasonal winds of South Asia is known as:
(a) Monsoons (b) Cyclones (c) Whirlwinds (d) Twisters
17. Internationally, Women's Day is observed on:
(a) June 5 (b) March 8 (c) August 15 (d) December 10
18. Pick out the incorrect singular - plural group from among the following:
(a) Child - children (b) story - stories (c) mouse - mice (d) wolf - wolves
19. The passive voice of "Did you do it?" is:
(a) You were done by it. (b) He was done by it.

- (c) Was it done by you? (d) Were it done by you?
20. There is ——— hourly bus from here to the capital.
(a) the (b) an (c) every (d) a
21. Let us play some game,?
(a) shall we (b) shan't we (c) will we (d) won't we
22. The student stood up when the teacher..... the classroom.
(a) enters (b) is entering (c) has entered (d) entered
23. I got angry my mother.
(a) at (b) with (c) on (d) to
24. He if you had called him.
(a) will come (b) would come (c) would have come
(d) should come
25. You don't love your wife,?
(a) Won't you (b) Don't you (c) Do you (d) Will you
26. The Nation every man to his duty.
(a) is expecting (b) accepts (c) excepts (d) expects
27. Who administers the oath of office to the President of India?
(a) The Chief Justice of India (b) The Speaker of the Lok Sabha
(c) The Vice President of India (d) The Speaker of Rajya Sabha
28. Whose date of birth is nationally observed as Teacher's Day?
(a) Dr. S. Radhakrishnan (b) Dr. Zakeer Hussein
(c) Dr. Rajendra Prasad (d) Dr. Sankar Dayal Sarma
29. Which one of the following is a classical art form of Kerala?
(a) Kathak (b) Kathakali (c) Drama (d) Kuchipudi
30. The Central Plantation Crops Research Institute has its headquarters in the district of Kerala.
(a) Alleppey (b) Wayanad (c) Cannanore (d) Kasargod
31. Angel, the highest waterfall is in:
(a) Canada (b) Congo (c) Venezuela (d) America
32. Who discovered colour blindness?
(a) John Dalton (b) Issac Newton
(c) William Harvey (d) Roger Bacon
33. Who is the author of the first book on Geometry?
(a) Pythagoras (b) Aryabhata (c) Euclid (d) Aristotle
34. PVC stands for:
(a) Polyvinyl Carbonol (b) Polyvinyl Chloride
(c) Polyvinyl Chloral (d) Polyvinyl Chloroform
35. The excess of in the atmosphere causes global warming.
(a) Nitrogen (b) Carbon monoxide
(c) Sulphur dioxide (d) Carbon dioxide
36. Which is the longest cell in the human body?
(a) Neural Cell (b) Beta Cell (c) Muscle cell (d) Epithelial cell
37. What is the name of the crystal form of carbon?
(a) Granite (b) Mica (c) Marble (d) Diamond
38. Who propounded the equation $E = mc^2$?
(a) Einstein (b) Newton
(c) Rutherford (d) Stephen Hawkings
39. In which year did the French Revolution begin?
(a) 1789 (b) 1668 (c) 1879 (d) 1757

40. When was the Dandi March begun?
 (a) August 6, 1942 (b) March 12, 1930
 (c) January 30, 1948 (d) January 26, 1950
41. What is the solvent of gold?
 (a) Mineral Water (b) Nitric acid (c) Heavy water (d) Aqua Regia
42. What is the name of the acid in grapes?
 (a) Acetic acid (b) Tartaric acid (c) Formic acid (d) Nitric acid
43. The sugar in the human body is controlled by the hormone called:
 (a) Pencillin (b) Paraffin (c) Insulin (d) Thyamine
44. If the word 'inspector' is coded as 123456789, what is the code for 'inspection'?
 (a) 123457689 (b) 1234567182 (c) 1235467182 (d) 123456798
45. Who is the wrong member in the following group?
 (a) Kissy (b) Lissy (c) Dizzy (d) Missy
46. $IAS = 538$, $IAS + IFS = 1136$. What is $IAS \times IFS$?
 (a) 321724 (b) 5381136 (c) 1136538 (d) 231274
47. Find the missing member in the series WXYZ, VWXY, TUVW:
 (a) UVWX (b) XYZW (c) WYZX (d) TVWY
48. From the following select the word that does not belong to the set:
 (a) Human (b) Canine (c) Lion (d) Feline
49. The irregular member in the following series:
 (a) ABBA (b) BCCB (c) EFEF (d) CDDC
50. 'Long' is to 'length' as 'strong' is to:
 (a) strongly (b) strength (c) stout (d) struggle
51. The odd man in the following group:
 (a) MARX (b) CHURCHILL (c) ENGELS (d) LENIN
52. DRIVER : BUS :: CAPTAIN :
 (a) AEROPLANE (b) CAR (c) BOAT (d) SHIP
53. Of the following who is famous as a painter?
 (a) Pandit Ravi Sankar (b) Fidel Castro (c) K.P.S. Menon (d) K.C.S. Panicker
54. Edmund Hailey was:
 (a) An astronomer (b) An astrologer (c) A cosmonaut (d) A Geologist
55. A person who does not believe in the existence of God is called:
 (a) An agnostic (b) An atheist (c) A skeptic (d) A cynic
56. The longest serving Chief Minister of Kerala was:
 (a) K. Karunakaran (b) E.M.S. Namboodiripadu
 (c) C. Achutha Menon (d) E.K. Nayanar
57. When natural rubber is heated with sulphur, its properties are changed. The process is called:
 (a) Catenation (b) Polymerization (c) Vulcanization (d) Isomerization
58. Which one of the following is an ancient dramatist?
 (a) G.B. Shaw (b) Annie Besant (c) Sophocles (d) Henrik Ibsen
59. Who is the author of the book 'The Wealth of Nations'?
 (a) Ricardo (b) Karl Marx (c) Amartya Sen (d) Adam Smith
60. Per Capita means:
 (a) for capital (b) by person (c) per head (d) from head

Directions (Qs. 61-67) In each one of the following questions, fill in the blanks with the correct choice:

61. Each of the students done well
 (a) are (b) have (c) were (d) has

62. I hurt
- (a)himself (b)myself (c)yourself (d)yourselves
63. It is a week since I him.
- (a)saw (b)have seen (c)am seeing (d)had seen
64. He worked hard lest he in life
- (a)should fail (b)shall fail (c)will fail (d)can fail
65. I asked the boy
- (a) how old he was (b)how old are you (c) how old he is (d) how old you are
66. The earth round the sun.
- (a) moved (b) is moving (c) moves (d) has been moving
67. My purse has been missing..... yesterday.
- (a) till (b)from (c) on (d)since
68. The volume of a hemisphere is:
- (a) $\frac{4}{3}\pi r^3$ (b) $\frac{1}{3}\pi r^2 h$ (c) $\pi^2 h$ (d) $\frac{2}{3}\pi r^3$
69. If $(x + y) : (x - y) = 3 : 2$, what is $x : y$?
- (b)5 : 1 (b)1 : 5 (c)3 : 2 (d)2 : 3
70. Expand $(x - 1)^3$ and find the coefficient of x
- (a)1 (b)-3 (c)+3 (d)0
71. $\sqrt{32} \cdot \sqrt{75} = ?$
- (a) $9\sqrt{6}$ (b) $9\sqrt{5}$ (c) $20\sqrt{5}$ (d) $20\sqrt{6}$
72. $\frac{6}{10} = \frac{y}{2.5}$. Find the value of y.
- (a) 15 (b)0.15 (c) 1.5 (d)25
73. If $x : y = 5 : 3$, what is $(x + y) : (x - y)$?
- (a)8 : 2 (b)1 : 4 (c)4 : 1 (d)2 : 8
74. Which number will complete the given series : 1, 9, 19, 31, 45,
- (a) 62 (b) 61 (c) 63 (d) 76
75. $\frac{(1.2)^2 + (1.5)^2}{10} =$
- (a) 3.69 (b)369 (c) 0.0369 (d)0.369
76. The ancient Indian Civilization was :
- (a)Industrial (b)Commercial (c) Agrarian (d)Barbarian
77. A heavenly body that revolves around a star along an orbit is called:
- (a)Satellite (b)Planet (c)Meteor (d)Asteroid
78. The time taken by earth to rotate on its axis is:
- (a)24 hours (b)23 hours 59 minutes
- (c)23hours 56 minutes and 4.00 seconds
- (d)24 hours 10 minutes 2 seconds
79. Who invented the barometer?
- (a)Edison (b)Davy (c)Stevenson (d)Torricelli
80. The substance that gives colours to skin is:
- (a)Melanin (b)Tannin (c)Guanin (d)Dermin
81. Who is the Father of Modern Genetics?
- (a)Henry Huxley (b)Stephen Gould
- (c)Hargobind Khorana (d)Gregor Mendel

82. The period of the pregnancy of an elephant is:
 (a) 10 months (b) 12 months (c) 24 months (d) 12 months 12 days
83. A 'universal donor' is a person with:
 (a)'O' blood group (b)'A' blood group
 (c)money for generous lending (d)Rh - factor
84. He the task entrusted to him.
 (a)carried away (b)carried up (c)carried out (d)carried by
85. All differences between nations and persons amicably.
 (a)should be settled(b)settle (c)are settling (d)were settling
86. My advice did not him at all.
 (a)effect (b)affect (c)afflict (d)inflict
87. December 2004, there were many natural calamities.
 (a)On (b)At (c)In (d)The
88. What the 'camel' is to the 'deserts', the 'reindeer' is to the:
 (a)Seas (b)Mountains (c)Forests (d)Tundras
89. If $9753 = ZXVT$, find the equivalent of 8642:
 (a) SUWY (b)RUWY (c) YWUS (d) TVXZ

Directions (Qs. 90- 92) : *Pick out from each group the one item that does not belong to the group:*

90. (a)Puppy (b)Cow (c)Kitten (d)Calf
91. (a)Coppernicus (b)Galileo (c) Newton (d)Darwin
92. (a)Hamlet (b)Macbeth (c)Shakespeare (d)Othello
93. struggled hard for abolishing Sati.
 (a)Sister Nivedita (b)Rajaram Mohan Roy
 (c)Swami Athuradas (d)Dayanand Saraswathi
94. The founder of I.N.A. was:
 (a)Mahatma Gandhi (b)Subhash Chand Bose
 (c)Sathyendra Nath Bose (d)Ajaya Ghosh
95. is the capital of Mongolia.
 (a)Ulan Bator (b)Rio De Janero (c)Sao Polo (d)Port Said
96. The State of Kerala was formed on:
 (a)November 1, 1956 (b)August 15, 1947
 (c)January 26, 1948 (d)November 14, 1956
97. Captain Lakshmi is so called because:
 (a)She was the captain of the Indian Women's Cricket Team.
 (b)She was named so by her parents.
 (c)She was a captain in the Indian National Army.
 (d)She was the first woman to get commission in the Indian Army.
98. The first writer to get the Jnanpeetam Award was:
 (a)Thara Sanker Banerji (b)G. Sankara Kurup
 (c)S.K. Pottekkattu (d)Mahaswetha Devi
99. A person who treats mental diseases is called
 (a)Physicist (b)Cardiologist (c)Psychologist (d)Psychiatrist
100. The VSSC is a:
 (a)Vedantic Study Centre (b)Vector Science Study Centre
 (c)Space Research Station (d)Voluntary Social Study Centre

Answers

1. (b) 2. (b) 3. (b) 4. (d) 5. (d) 6. (c)
7. (a) 8. (a) 9. (c) 10. (a) 11. (a) 12. (c)
13. (d) 14. (b) 15. (c) 16. (a) 17. (b) 18. (b)
19. (c) 20. (b) 21. (a) 22. (d) 23. (b) 24. (c)
25. (c) 26. (d) 27. (a) 28. (a) 29. (b) 30. (d)
31. (c) 32. (a) 33. (c) 34. (b) 35. (d) 36. (a)
37. (d) 38. (a) 39. (a) 40. (b) 41. (d) 42. (b)
43. (c) 44. (b) 45. (c) 46. (a) 47. (a) 48. (c)
49. (c) 50. (b) 51. (b) 52. (d) 53. (d) 54. (a)
55. (b) 56. (d) 57. (c) 58. (c) 59. (d) 60. (d)
61. (d) 62. (b) 63. (b) 64. (a) 65. (a) 66. (c)
67. (d) 68. (d) 69. (a) 70. (b) 71. (d) 72. (c)
73. (c) 74. (b) 75. (d) 76. (c) 77. (b) 78. (c)
79. (d) 80. (a) 81. (d) 82. (c) 83. (a) 84. (c)
85. (a) 86. (b) 87. (c) 88. (d) 89. (c) 90. (b)
91. (d) 92. (c) 93. (b) 94. (b) 95. (a) 96. (a)
97. (c) 98. (b) 99. (d) 100. (c)