

Mathematics

1. Fractional part of the number -6.3 is—
 (A) 0.3 (B) 0.7
 (C) -0.3 (D) -0.7
2. Correct statement for the fractions $\frac{161}{160}$, $\frac{3201}{3200}$ is—
 (A) $\frac{161}{160} > \frac{3201}{3200}$
 (B) $\frac{161}{160} = \frac{3201}{3200}$
 (C) $\frac{161}{160} < \frac{3201}{3200}$
 (D) None of these
3. Additive inverse of $\frac{0}{x}$, where $x \neq 0$, is—
 (A) $\frac{1}{x}$ (B) $-x$
 (C) 0 (D) x
4. 25% of 25% is equal to—
 (A) 5% (B) 6.25%
 (C) 6.5% (D) 7.5%
5. Income of A is 30% more than the income of B then how much income of B is less than the income of A?
 (A) 30% (B) 25%
 (C) $23\frac{1}{13}\%$ (D) $33\frac{1}{3}\%$
6. The difference between 2% of 100 and 100% of 2 is—
 (A) 0 (B) 2
 (C) 100 (D) -2
7. By increasing the numerator by 350% and denominator by 300%, a fraction becomes $\frac{9}{22}$, then the original fraction was—
 (A) $\frac{3}{4}$ (B) $\frac{5}{12}$
 (C) $\frac{7}{9}$ (D) $\frac{4}{11}$
8. ₹ 2,500 amounts to ₹ 2,875 in $1\frac{1}{2}$ years with simple rate of interest, then the interest rate is—
 (A) 10% (B) 10.5%
 (C) 11% (D) 9.5%
9. If at the interest rate of 9% on a certain sum the interest for 8 years is ₹ 288 more than the interest for four years, then the sum is—
 (A) ₹ 1,000 (B) ₹ 800
 (C) ₹ 600 (D) ₹ 780
10. For the same time and same annual rate the simple interest of ₹ x is ₹ y and simple interest of ₹ y is ₹ z , then which of the following statements is correct?
 (A) $xyz = 1$ (B) $z^2 = xy$
 (C) $y^2 = zx$ (D) $x^2 = yz$
11. If a certain sum amounts to ₹ 850 in three years whereas it amounts to ₹ 925 in four years at simple rate of interest then the principal is—
 (A) ₹ 600 (B) ₹ 625
 (C) ₹ 650 (D) ₹ 675
12. If the difference between simple interest and compound interest on a certain sum is ₹ 288 for 2 years at the rate of 12%, then the sum is—
 (A) ₹ 18,000 (B) ₹ 19,000
 (C) ₹ 20,000 (D) ₹ 22,000
13. If annual rate of compound interest is 10%, then equivalent interest rate for 2 years is—
 (A) 20% (B) 20.4%
 (C) 20.8% (D) 21%
14. If at 20% annual rate of interest on a certain sum the second year's compound interest is ₹ 120, then the sum is—
 (A) ₹ 500 (B) ₹ 400
 (C) ₹ 600 (D) ₹ 540
15. The final price of a laptop is ₹ 18,810. If the rates of increments are 10%, -5% and -10% , then the initial price of the laptop is—
 (A) ₹ $18,810 \times \frac{100}{110} \times \frac{100}{105} \times \frac{100}{110}$
 (B) ₹ $18,810 \times \frac{100}{110} \times \frac{100}{95} \times \frac{100}{90}$
 (C) ₹ $18,810 \times \frac{110}{100} \times \frac{95}{100} \times \frac{90}{100}$
 (D) ₹ $18,810 \times \frac{110}{100} \times \frac{105}{100} \times \frac{110}{100}$
16. If 20% loss occurs on selling an article at ₹ 480, then in order to get 20% profit the selling price will be—
 (A) ₹ 600 (B) ₹ 660
 (C) ₹ 720 (D) ₹ 740
17. On selling 30 articles a profit is equal to selling price of 5 articles then profit per cent is—
 (A) 16.6% (B) 25%
 (C) 20% (D) 22.75%
18. Ramu purchased two fans at the cost of ₹ 400 each and sold one of them at 20% profit and other at 30% loss. Profit or loss percent is—
 (A) 5% profit (B) 5% loss
 (C) 10% profit (D) 10% loss
19. A dealer marks the price of an article by 40% more than C. P. He allows 10% commission. His profit per cent is—
 (A) 26% (B) 30%
 (C) 36% (D) 40%
20. The base of an isosceles triangle is 12 cm. A lateral side exceeds the altitude by 2 cm. Area of the triangle is—
 (A) 60 cm^2 (B) 36 cm^2
 (C) 24 cm^2 (D) 48 cm^2
21. If the parallel sides of a trapezium are 10 cm and 12 cm long and the distance between them is 8 cm, then the area of the trapezium is—
 (A) 48 cm^2 (B) 84 cm^2
 (C) 86 cm^2 (D) 88 cm^2

22. If the perimeters of two concentric circles are 88 cm and 132 cm, then the area of the ring between them is—
 (A) 335 cm² (B) 154 cm²
 (C) 770 cm² (D) 616 cm²
23. If the area of a square is increased by 44%, then the increase in its each side is—
 (A) 12% (B) 16%
 (C) 20% (D) 28%
24. If diameter of a cylinder is equal to its height, then its volume is—
 (A) $\pi r^2 h$ (B) $\frac{\pi h^3}{4}$
 (C) $\frac{1}{8} \pi r^2 h$ (D) $\frac{\pi^3 r}{16}$
25. If the length is increased by 10%, breadth is decreased by 20% and height is increased by 25% of a cuboid, then the per cent increase/decrease in its volume is—
 (A) 10% increase
 (B) 10% decrease
 (C) 15% increase
 (D) 15% decrease
26. After melting a sphere of diameter 6 cm, a wire of radius 1 mm is made up, then the length of the wire is—
 (A) 18 metre (B) 26 metre
 (C) 32 metre (D) 36 metre
27. If the radius of a cylinder is doubled and the height is halved, then the ratio between the new volume and the previous volume is—
 (A) 4 : 1 (B) 2 : 1
 (C) 1 : 4 (D) 1 : 2
28. Value of 1993×1993 is—
 (A) 3772049 (B) 3972049
 (C) 3972019 (D) 3772149
29. For 7^{105} , digit at unit's place is—
 (A) 5 (B) 7
 (C) 9 (D) 1
30. Value of $440 \times (16 + 12)$ is—
 (A) 11440 (B) 170520
 (C) 12880 (D) 12320
31. Value of $502 \times 503 \times 504$ is—
 (A) 127263024
 (B) 172513024
 (C) 127253024
 (D) 127513024
32. A lady is a owner of $\frac{4}{5}$ part of a property. She equally distributes it into her three children. Part of each child is—
 (A) $\frac{12}{27}$ (B) $\frac{1}{3}$
 (C) $\frac{1}{15}$ (D) $\frac{4}{15}$
33. When a number is divided by 342 the remainder is 47, the same number is divided by 18 then the remainder is—
 (A) 11 (B) 17
 (C) 2 (D) 0
34. Value of $\frac{(8 + 8 + 8) \div 8}{6 + 6 + 6 \div 6}$ is—
 (A) 17 (B) 1
 (C) 3 (D) 3
 (C) 13 (D) 11
35. The square of an odd number greater than 1 is divided by 8, the remainder is—
 (A) 0
 (B) 1
 (C) Odd number > 1
 (D) 7
36. Vulgar fraction of $0.\overline{235}$ is—
 (A) $\frac{235}{1000}$ (B) $\frac{233}{990}$
 (C) $\frac{235}{999}$ (D) $\frac{233}{1000}$
37. Non-terminating and non-repeating decimal numbers are called—
 (A) Natural numbers
 (B) Whole numbers
 (C) Rational numbers
 (D) Irrational numbers
38. Which of the following rational numbers is a non-terminating decimal ?
 $\frac{2}{5}, \frac{3}{7}, \frac{1}{10}, \frac{24}{25}$
 (A) $\frac{2}{5}$ (B) $\frac{3}{7}$
 (C) $\frac{1}{10}$ (D) $\frac{24}{25}$
39. The decimal form of $\frac{7}{8}$ is—
 (A) 0.785 (B) 0.885
 (C) 0.875 (D) 0.857
40. If $\frac{1}{3}$ is obtained on adding 3 to the denominator of a fraction and $\frac{3}{4}$ is obtained on adding 4 to the numerator of the same fraction, then the fraction is—
 (A) $\frac{4}{9}$ (B) $\frac{6}{15}$
 (C) $\frac{7}{18}$ (D) $\frac{5}{12}$

General Knowledge

41. Who had assassinated the last Mauryan King Brihadrath ?
 (A) Kanishka
 (B) Bhaskar Varman I
 (C) Pushyamitra Sung
 (D) Harshavardhan
42. Who was the first President of Indian National Congress ?
 (A) Surendra Nath
 (B) A. O. Hume
 (C) W. C. Bannarji
 (D) Badruddin Tayyabji
43. Who among the following was appointed as temporary President of Constituent Assembly on 9th December, 1946 ?
 (A) Dr. Rajendra Prasad
 (B) Sardar Patel
 (C) Sachchidanand Sinha
 (D) J. L. Nehru
44. In which year Lucknow Pact was signed ?
 (A) 1914 (B) 1915
 (C) 1916 (D) 1917
45. Who was the Chairman of Nehru Committee, 1928 ?
 (A) Moti Lal Nehru
 (B) Jawahar Lal Nehru
 (C) Arun Nehru
 (D) B. K. Nehru
46. Which of the following is not a Union Territory ?
 (A) Chandigarh
 (B) Lakshadweep
 (C) Goa
 (D) Andaman Nicobar Islands
47. Which place does not have a Nuclear Power Plant ?
 (A) Lucknow (B) Kakarapar
 (C) Tarapur (D) Kalpakkam

48. In which year India became the member of United Nations Organisation ?
(A) 1944 (B) 1945
(C) 1946 (D) 1947
49. In which year Chhattisgarh was separated from Madhya Pradesh ?
(A) 1998 (B) 1999
(C) 2000 (D) 2001
50. Who among the following never remained Chief Minister of Madhya Pradesh ?
(A) Kailash Joshi
(B) Virendra Saklecha
(C) Uma Bharti
(D) Subhash Yadav
51. Approximately how old the Sun is ?
(A) 4700 million years
(B) 4.6 billion years
(C) 4800 million years
(D) 4900 million years
52. What was the name of the first person to visit outerspace ?
(A) Yuri Gagarin
(B) Alan Shepard
(C) John Glenn
(D) Alexei Leonov
53. To which country Spacecraft 'MIR' belonged?
(A) United States of America
(B) Former Soviet Union
(C) France
(D) England
54. To which country scientist Newton belonged?
(A) France (B) Germany
(C) England (D) Italy
55. How many protons are there in the nucleus of Uranium-235 ?
(A) 90 (B) 91
(C) 92 (D) 93
56. Where does the protein digestion start ?
(A) Stomach (B) Mouth
(C) Liver (D) Kidney
57. Who is the inventor of Television?
(A) Volta
(B) Pascal
(C) Graham Bell
(D) J. L. Baird
58. For which fields contribution Borlog Award is given ?
(A) Journalism
(B) Social service
(C) Agriculture
(D) Sports
59. Which atomic mineral is mainly found in India ?
(A) Radium (B) Thorium
(C) Uranium (D) Plutonium
60. By which instrument purity of milk is measured?
(A) Altimeter
(B) Lactometer
(C) Fathometer
(D) Hygrometer
61. Who is called as the father of Political Science?
(A) Plato (B) Aquinas
(C) Aristotle (D) Machiavelli
62. In which year last Lok Sabha Elections were held in India ?
(A) 2008 (B) 2009
(C) 2010 (D) 2011
63. Who had propounded the principle of class struggle ?
(A) Darwin (B) Weber
(C) Marx (D) Hegel
64. Who was the author of the book 'Discovery of India' ?
(A) Mahatma Gandhi
(B) J. L. Nehru
(C) S. C. Bose
(D) Sardar Patel
65. Which of the following is not a Fundamental Right in Indian Constitution ?
(A) Right to Equality
(B) Right to Freedom
(C) Right against Exploitation
(D) Right to Property
66. Who among the following is not a member of Anna Hazare Team ?
(A) Arvind Kejariwal
(B) Prashant Bhushan
(C) Swami Agnivesh
(D) Kiran Bedi
67. Which country is not a member of BRIC ?
(A) Britain (B) Russia
(C) India (D) China
68. Which State is having Vijay Bahuguna as its Chief Minister ?
(A) Jharkhand
(B) Meghalaya
(C) Arunachal Pradesh
(D) Uttarakhand
69. Which country is not a member of SAARC ?
(A) China (B) Afghanistan
(C) Bhutan (D) Maldives
70. In which State of India generally Dalai Lama resides ?
(A) Himachal Pradesh
(B) Sikkim
(C) Arunachal Pradesh
(D) Jammu and Kashmir