

075/2016

Maximum : 100 marks.

Time : 1 hour and 15 minutes

1. The HCF and LCM of two numbers are 12 and 216 respectively. If one of number is 108, find the other number :
(A) 36 (B) 48
(C) 24 (D) 9
2. Which one of the following is a prime number?
(A) 2 (B) 6
(C) 9 (D) 1
3. John makes a profit of 12% by selling the article for Rs. 448. Calculate the cost price.
(A) 100 (B) 200
(C) 300 (D) 400
4. Find the value of 'p' for which 3, 5, p+5, 25 are in proportion :
(A) 15 (B) 20
(C) 10 (D) 30
5. 'A' can complete a piece of work in 10 days. 'B' can complete the same piece of work in 15 days. If they work together in how many days will the work be completed?
(A) 6 (B) 8
(C) 10 (D) 9
6. Sachin runs at $\frac{5}{4}$ th of his usual speed and reaches the playground 5 minutes earlier. What is the usual time?
(A) 20 (B) 25
(C) 35 (D) None
7. The capacity of a cubical mug is 1 litre. The length of its edge is :
(A) 1 cm (B) 10 cm
(C) 1 m (D) 10 m

A

3

[P.T.O.]

8. Find the compound interest on Rs. 8,000 for $1\frac{1}{2}$ years at 10% per annum if interest is being calculated half yearly :
- (A) 1200 (B) 1220
(C) 1241 (D) 1261
9. My mother is twice as old as my brother. I am 5 years younger to my brother, but 3 years older to my sister. If my sister is 12 years of age how old is my mother?
- (A) 30 (B) 54
(C) 40 (D) 46
10. The price of an article has been increased by 25%. By how much percent must this new price be decreased to retain its former price?
- (A) 20 (B) 25
(C) 50 (D) 30
11. Find the next number in the series :
4, 7, 10, 11, 22, 17, 46, 25, _____.
- (A) 56 (B) 69
(C) 94 (D) 86
12. Identify the missing term :
TYU, NSO, HMI, _____.
- (A) GBC (B) BGC
(C) CGD (D) AGB
13. Find the odd man out :
5, 9, 17, 35, 65, 129
- (A) 9 (B) 65
(C) 17 (D) 35
14. Pointing towards a lady, Leela said 'She is the daughter of the woman who is the mother of the husband of my mother'. How is the lady related to Leela?
- (A) Daughter (B) Aunt
(C) Grand daughter (D) Sister
15. Give the antonym of the word 'adversity' :
- (A) extremity (B) affliction
(C) prosperity (D) distress

16. If PROSE is coded as PPOQE, how is LIGHT coded?
 (A) LGGFT (B) LIGFT
 (C) JIEHR (D) LLGFE
17. A boy goes south, turns right, then right again and then goes left. In which direction he is now?
 (A) East (B) North
 (C) West (D) South
18. Arrange the given words in the sequence they occur in the dictionary :
 1. precede 2. precision 3. precise
 4. precept 5. preach 6. prelude
 (A) 5, 3, 1, 4, 2, 6 (B) 5, 1, 3, 4, 2, 6
 (C) 5, 1, 4, 2, 3, 6 (D) 5, 1, 4, 3, 2, 6
19. If it was Saturday on 17th December 1982, what will be the day on 22nd December 1984?
 (A) Monday (B) Sunday
 (C) Saturday (D) Friday
20. A lady drives a car for 15 km to the west from the radio station. Then she turns left and goes 10 km. After this she turns right and goes for 18 km. Now in which direction is she going :
 (A) West (B) South-West
 (C) South (D) East
21. A fuse wire is characterized by :
 (A) Low resistance and low melting point
 (B) Low resistance and high melting point
 (C) High resistance and low melting point
 (D) High resistance and high melting point
22. A man pushes a metal block and fails to displace it. He does :
 (A) maximum work (B) no work at all
 (C) positive work (D) negative work
23. The minimum number of geostationary satellites needed for global communication coverage is :
 (A) 1 (B) 2
 (C) 3 (D) 4

24. The working principle of Optical Fiber Cable (OFC) is :
- (A) Scattering (B) Dispersion
(C) Total internal reflection (D) Interference
25. The concept of radio transmission was first demonstrated by the famous Indian scientist :
- (A) J.C. Bose (B) C.V. Raman
(C) Vikram Sarabai (D) Homi. J. Baba
26. Which of the following unit is a fundamental unit?
- (A) Joule (B) Watt
(C) Meter/Second (D) Second
27. One 'Pico meter' equal to :
- (A) 10^{-6} m (B) 10^{-15} m
(C) 10^{-12} m (D) 10^{-9} m
28. The image of an object formed on the retina of human eye is :
- (A) Virtual and inverted (B) Virtual and erect
(C) Real and inverted (D) Real and erect
29. On which of the following scales of temperature, the temperature is never negative?
- (A) Celsius (B) Kelvin
(C) Fahrenheit (D) None of these
30. A person is comfortable while sitting near a fan in summer because :
- (A) Rate of evaporation increases (B) The fan provides free ventilation
(C) The fan circulates air (D) None of these
31. Who among these politicians use an adapted motor vehicle dubbed as the 'Chaitanya Ratham'?
- (A) L.K. Advani (B) Lalooprasad Yadav
(C) N.T. Rama Rao (D) M.G. Ramachandran
32. With reference to Educational Degree, what does Ph.D. stand for?
- (A) Diploma of Philosophy (B) Diploma in Psychology
(C) Doctor of Philosophy (D) Drama in Philosophy

33. Who is the Brand Ambassador of the programme 'Make in Kerala'?
- (A) Mammotty (B) Mohanlal
(C) Suresh Gopi (D) Dileep
34. Which Article recently dismissed from the I.T. Act?
- (A) 66 B (B) 66 A
(C) 66 D (D) 65 A
35. Which country is the 123rd member country in the International Criminal Court?
- (A) Pakistan (B) India
(C) Israel (D) Palestine
36. The newly formulated International Front to fight against global warming :
- (A) V20 (B) V21
(C) V22 (D) V23
37. The Indian Scientist who won the Japan's highest honour "Order of the Rising Sun Gold and Silver Star" :
- (A) Dr. Kiran Kumar (B) Prof. C.N.R. Rao
(C) Dr. Ayyankar (D) Dr. G. Madhavan Nair
38. Who wrote the theme song of 'Run Kerala Run' in connection with National Games?
- (A) P.K. Gopi (B) Murukan Kattakada
(C) O.N.V. Kurup (D) V. Madhusoodan Nair
39. The name of Single Window Portal started by India for Educational loan and Scholarships :
- (A) Vidya Lakshmi (B) Vidya Bharathi
(C) Vidya Nikethan (D) Vidya Abiyan
40. The third greatest attraction in the world as per the survey conducted by famous Travel website 'Trip Advisor' :
- (A) Taj Mahal (B) Burg Dubai
(C) Pisa Tower (D) Great Wall of China
41. Gandhi wrote Hind Swaraj in Gujarati in :
- (A) 1909 (B) 1919
(C) 1921 (D) 1931

42. The narrow stretch of land that connects peninsular India with north eastern states of India is called :
- (A) Siliguri Corridor (B) Sikkim Corridor
(C) Darjeeling Corridor (D) Gangtok Corridor
43. Boundary demarcation line between India and Pakistan is known as the :
- (A) Durant Line (B) Radcliffe Line
(C) Line of Control (D) Actual Line of Control
44. Srirangapattana is a river island located on the river :
- (A) Krishna (B) Kaveri
(C) Netravati (D) Sharavati
45. Black soil is seen in _____ district of Kerala.
- (A) Palakkad (B) Kannur
(C) Kollam (D) Wyanad
46. Bhagat Singh was convicted to death in _____ case.
- (A) Saunders Murder
(B) Meerut Conspiracy
(C) Lahore Conspiracy
(D) Central Legislative Assembly Bomb Throwing
47. The British introduced Dyarchy in major Indian Provinces by the Act of :
- (A) 1891 (B) 1909
(C) 1919 (D) 1935
48. The main venue of the Salt Satyagraha in Kerala was :
- (A) Payyannur (B) Kozhikode
(C) Ponnani (D) Guruvayur
49. The Indian National Congress adopted a resolution on Fundamental Rights and Economic policy at its _____ session.
- (A) Lahore (B) Nagpur
(C) Karachi (D) Bombay

50. Who among the following was involved with the foundation of the Deccan Education Society?
 (A) Gopala Krishna Gokhale (B) Bal Gangadhar Tilak
 (C) Sardar Vallabhai Patel (D) V.D. Savarkar
51. Name the river mentioned by Kautilya in his Arthashastra :
 (A) Bharathapuzha (B) Churni
 (C) Pamba (D) Kaveri
52. Puralimala was situated in which Taluk?
 (A) Tellicherry (B) Thamarassery
 (C) Meppadi (D) Manathavady
53. Who was the founder of Ananda Maha Sabha?
 (A) Raja Ram Mohan Roy (B) Dayananda Saraswathi
 (C) Sree Narayana Guru (D) Swami Sivayogi
54. Which was the original name of Thycaud Ayya Swamikal?
 (A) Subbarayan (B) Ayyappan
 (C) Gurudevan (D) Vasudevan
55. Who wrote the song Koottiyoor Ulsavapattu?
 (A) Chattambi Swamikal (B) Chavara Kuriakose Elias
 (C) Vakkom Maulavi (D) Vagbhatananda
56. Who wrote the famous work Jathikummi?
 (A) Kellappan (B) E.M.S.
 (C) Pandit Karuppan (D) O.N.V. Kurup
57. Name the place in which Narayana Guru founded a Advaita Ashramam in 1904 for dedicating to the principle of Om Sahodaryam Sarvatra :
 (A) Varkala (B) Aluva
 (C) Trichur (D) Trivandrum
58. Who wrote the play Adukkalayil Ninnu Arangathekku?
 (A) V.T. Bhattathiripad (B) Swami Vivekananda
 (C) Poykayil Yohannan (D) Eluthachan

59. In which year Ayya Vaikundar was born in Swamithoppu?
(A) 1809 (B) 1815
(C) 1850 (D) 1875
60. Name the work written by Kumaranasan from the inspiration of Edwin Arnold's Light of Asia :
(A) Veena Poovu (B) Sakunthalam
(C) Buddha Charitha (D) Swanthanam
61. The Article of the Indian Constitution that deals with Right to Constitutional Remedies is :
(A) Article 28 (B) Article 30
(C) Article 31 (D) Article 32
62. The International Human Rights Day is observed on :
(A) 26th January (B) 1st May
(C) 10th December (D) 24th October
63. The Chairman of the National Human Rights Commission in India :
(A) K.G. Balakrishnan (B) G.P. Mathur
(C) J.S. Anand (D) Raghunath Mishra
64. The Protector of the rights of citizens in a democracy :
(A) Judiciary (B) Political Parties
(C) Legislature (D) Executive
65. Who said "Man is born free but he is everywhere in chains"?
(A) Locke (B) Grotius
(C) Hobbes (D) Rousseau
66. Article lays down that there shall be a Public Service Commission for the union and a Public Service Commission for each states :
(A) Article 280 (B) Article 324
(C) Article 315 (D) Article 356
67. The Chairman of the Constituent Assembly of India :
(A) Dr. B.R. Ambedkar (B) Dr. Rajendra Prasad
(C) Dr. S. Radhakrishnan (D) Nehru