

32/2019-T

Maximum : 100 marks

Time : 1 hour and 15 minutes

1. January 1, 2007 was Monday, what day of the week lies on January 1, 2008 :
(A) Monday (B) Wednesday
(C) Tuesday (D) Sunday
2. How many times do the hands of a clock coincide in a day?
(A) 24 (B) 22
(C) 44 (D) 12
3. How long does a train 110 m long running at the speed of 72 km/hr take to cross a bridge 132 m in length?
(A) 12.1 sec (B) 20.5 sec
(C) 10.5 sec (D) 11.2 sec
4. The next term in the following series is :
1, 3, 7, 15,
(A) 21 (B) 23
(C) 31 (D) 29
5. The average age of a class of 25 students is 24 years. The average increased by 1 when the age of teacher is also included. What is the age of the teacher?
(A) 29 (B) 22
(C) 50 (D) 35
6. If 45 men working 4 hours a day can do a work in 8 days, in how many days will 36 men finish it by working 8 hours a day :
(A) 4 (B) 5
(C) 6 (D) 3
7. $33\frac{1}{3}\%$ of 33 is :
(A) 33 (B) 1
(C) 100 (D) 11

8. A sum of money becomes Rs. 13,380 after 3 years and Rs. 26,760 after 6 years on compound interest. The sum is :
- (A) 6680 (B) 6290
(C) 9060 (D) 6690
9. The product of two numbers is 1520 and their HCF is 5, the LCM of the numbers is :
- (A) 304 (B) 310
(C) 760 (D) 7600
10. If $a:b = 2:3$ and $b:c = 4:5$ then $a:b:c$ is :
- (A) 8:12:15 (B) 2:4:5
(C) 8:12:16 (D) 2:3:5
11. The following question consists of a number series which contains a wrong term. This term is given as one of the alternatives among the FOUR numbers given below it. Find out the WRONG term in the following.
- 1 4 7 11 16 22 29
- (A) 1 (B) 4
(C) 7 (D) 11
12. $(999^2 - 998^2) \div 10 \times 100 + 3 = :$
- (A) 29987 (B) 29978
(C) 19973 (D) none of these
13. Average age of A, B and C is 40 years. If average age of B and C is 45 years and the age of B is 40, then what is the sum of ages of A and C?
- (A) 120 (B) 90
(C) 70 (D) 80
14. There are 3 pipes in a tank. If first pipe is opened the tank is filled in one hour. If second pipe is opened the tank is filled in seventy five minutes. If third pipe is opened the tank is filled in fifty minutes. If all the three pipes are opened simultaneously, the tank is filled in :
- (A) 32 (B) 29
(C) 25 (D) 20

15. The H.C.F of two numbers is 24. The number which can be their L.C.M is :
- (A) 128 (B) 120
(C) 138 (D) 150
16. Find the missing digits :
- 5, 11, 23, —, 95
- (A) 47 (B) 40
(C) 61 (D) 51
17. Using the relation find the missing letters in the following :
- BOQD : ERTG :: ANPC : ———
- (A) FSHU (B) CPSF
(C) DQSF (D) FQHS
18. F is the father of A, C is the daughter of A, K is the sister of F and G is the brother of C. Who is the uncle of G?
- (A) C (B) F
(C) A (D) None of these
19. A walks a distance of 3 K.M towards north, then turns to his left and walks for 2 K.M. He again turns left and walks for 3 K.M. At this point he turns to his right and walks for 3 K.M. How many K.M and in what direction is he from the starting point?
- (A) 5 K.M and West (B) 3 K.M and South
(C) 2 K.M and South (D) 4 K.M and West
20. B is twice as old as A but twice younger than F. C is half the age of A but twice older than D. Which two persons from the pair of the oldest and the youngest?
- (A) B oldest and D youngest (B) B oldest and C youngest
(C) F oldest and D youngest (D) F oldest and C youngest
21. From the following processes choose the one which does not helps for the absorption of water from the soil by roots :
- (A) Root Pressure (B) Cohesion
(C) Transpiration (D) Osmosis
22. All of the following are examples of connective tissue, except :
- (A) Bones (B) Blood
(C) Cartilages (D) Muscles

23. Even though high cholesterol level is harmful, cholesterol helps for synthesis of a vitamin in our body. This vitamin is :
- (A) Vitamin A (B) Vitamin D
(C) Vitamin E (D) Vitamin K
24. Consider the following hormones produced by our body and corresponding deficiency disease :
- (i) Thyroxine – Cushing’s syndrome
(ii) Vasopressin – Diabetes Insipidus
(iii) Insulin – Diabetes mellitus
(iv) Gluco corticoids – Addison’s disease
- Of which
- (A) Only (iii) is correct (B) Only (ii) and (iii) are correct
(C) (ii), (iii), and (iv) are correct (D) All are correct
25. When water is cooled ice is formed. By which of the following reasons does this changes occur?
- (A) Volume increase and density decrease
(B) Volume increase and density increase
(C) Volume decrease and density decrease
(D) Volume decrease and density increase
26. A pH of 7-8 is suitable for crops of Cabbage. After soil analysis, the farmer is asked to sprinkle slaked lime to soil to obtain optimum pH for that crop. So what will be the pH found on soil test?
- (A) Below 6 (B) Above 8
(C) 7.5 (D) None of these
27. Of the following which one is not an Allotrope of Carbon?
- (A) Diamond (B) Graphite
(C) Fullerenes (D) Naphthalene
28. The main reason for stars appear to be twinkle for us is :
- (A) Refraction (B) Reflection
(C) Diffraction (D) Scattering

29. Theoretically the end of stars having mass less than 1.44 times the mass of the Sun will be in the form of :
- (A) Neutron stars (B) Black holes
(C) Black dwarf (D) Black stars
30. According to Robert Whittaker in which of the following Kingdom does the Bacteria belong :
- (A) Protista (B) Monera
(C) Fungi (D) Animalia
31. Who was appointed as new Vigilance Director of Kerala?
- (A) P. Vijayan (B) Merlin Joseph
(C) R. Sreelekha (D) B.S. Mohammed Yasin
32. Which of the following became the oldest player of World Cup Football?
- (A) Essam El-Hadary (B) Rafael Marquez
(C) Tim Cahill (D) Willy Caballero
33. Who bagged the Man Booker International Award of 2018?
- (A) David Grossman (B) Olga Tokarczuk
(C) Han Kang (D) Lydia Davis
34. Who was appointed as the new Prime Minister of Italy recently?
- (A) Paolo Gentiloni (B) Matteo Renzi
(C) Giuseppe Conte (D) Enrico Letta
35. Which of the following country has the highest World Peace Index?
- (A) New Zealand (B) Iceland
(C) Austria (D) Portugal
36. Who was appointed as the Principal Scientific Advisor to the Government of India recently?
- (A) Vijay Raghavan (B) C.N.R. Rao
(C) Rajgopala Chidambaram (D) Homi Sethna
37. Who bagged the prestigious Dada Saheb Phalke Award in 2017?
- (A) Sanjay Dutt (B) Manoj Kumar
(C) Shashi Kapoor (D) Vinod Khanna

38. In which state the Patratu Super Thermal Power Project is located?
(A) Sikkim (B) Arunachal Pradesh
(C) Jharkhand (D) Tripura
39. Which is the first Latin American Country to join NATO recently?
(A) Cuba (B) Columbia
(C) Brazil (D) Argentina
40. Who bagged the French Open Tennis Championship in 2017?
(A) Rafael Nadal (B) Novak Djokovic
(C) Stan Wawrinka (D) Martin del Petro
41. Kamuthi Solar Power plant is the largest solar power plant in India situated at :
(A) Tamilnadu (B) Andrapradesh
(C) Rajasthan (D) Gujarath
42. Goods and Service Tax in India came in to force on :
(A) 1st April 2017 (B) 1st July 2018
(C) 1st July 2017 (D) 1st April 2018
43. In the Census 2011 which is the highest literacy District in India :
(A) Aizwal (B) Mahe
(C) Kottayam (D) Serchhip
44. The Dampa Tiger Reserve is the largest wildlife sanctuary situated in the of state of :
(A) Odisha (B) Nagaland
(C) Manipur (D) Mizoram
45. Which is considered as the Worlds largest masonry dam?
(A) Hirakud Dam (B) Nagarjuna sagar Dam
(C) Tehri Dam (D) Idukki Arch Dam
46. Which is the highest mountain peak in Karnataka?
(A) Baba budangiri (B) Tadiandamol Peak
(C) Mullayanagiri (D) Kudramukh Peak

47. Which state launched the “Neeru Meeru Programme” in 2000 to improve ground water level?
(A) Gujarat (B) Andhra Pradesh
(C) West Bengal (D) Karnataka
48. The Indian environmentalist who won the Goldman Environmental Prize in 2017 :
(A) Prafulla Samantara (B) Mark Lopez
(C) Wendy Bowman (D) None of these
49. Which is the largest Bauxite producer state in India?
(A) Andhra Pradesh (B) Madhya Pradesh
(C) Bihar (D) Odisha
50. Ayushman Bharat Yojana is a health protection scheme launched by Prime Minister Narendra Modi on :
(A) 23 Sep. 2018 (B) 25 Dec. 2014
(C) 14 Nov. 2018 (D) 1 Jan. 2019
51. Which is the largest river in Odisha?
(A) Baitarani (B) Bhargavi river
(C) Mahanadi (D) Krishna river
52. NITI Aayog was formed in India on :
(A) 1st Jan. 2017 (B) 1st Jan. 2015
(C) 1st Jan. 2016 (D) 1st July 2015
53. Who among the following person is not associated with Kochi Rajya Prajamandalam?
(A) Ekkanda Warriar (B) V.R. Krishnan Ezhuthachan
(C) S. Neelakanda Iyyer (D) None of these
54. The British Governor General who introduced the Subsidiary Alliance system in India :
(A) Lord Canning (B) Lord Wellesly
(C) Lord Dalhousie (D) Lord Lytton
55. Indian National Congress celebrated the first Independence Day on :
(A) 15th Aug. 1947 (B) 14th Aug. 1947
(C) 26th Jan. 1930 (D) 8th Aug. 1942

56. The famous proclamation issued in the name of Bahadur Shah II appealed to the people to join the fight against British in 1857 :
- (A) Asamgarh Proclamation (B) Allahabad Proclamation
(C) Kundara Proclamation (D) None of these
57. Who lead the revolt of 1857 at Lucknow?
- (A) Beegam Hazrath Mahal (B) Bahadursha II
(C) Nana Saheb (D) Jhansi Rani
58. Lord Cornwallis introduced the Permanent Land Settlement in Bengal in :
- (A) 1820 (B) 1772
(C) 1793 (D) 1857
59. The term Tirthangaras is associated with the religion of :
- (A) Buddhism (B) Jainism
(C) Sikkism (D) None of these
60. The famous Social Reformer Mar Kuriakose Ellias Chavara born at :
- (A) Padyathu (B) Vengannur
(C) Mezhathur (D) Kainakari
61. In which year was the Indian Citizenship Act passed?
- (A) 1947 (B) 1950
(C) 1955 (D) 1956
62. When was the Constitution of India brought into force?
- (A) 26th November 1946 (B) 26th January 1949
(C) 26th November 1949 (D) 26th January 1950
63. Which Article of the Indian Constitution specifies about right to life?
- (A) Article 14 (B) Article 19
(C) Article 21 (D) Article 24
64. By which Constitutional Amendment Act was the fundamental duties inserted in the Indian Constitution?
- (A) 42nd Amendment 1976 (B) 44th Amendment 1978
(C) 52nd Amendment 1985 (D) 61st Amendment 1988

65. Article 44 of the Directive Principles of State Policy specifies about :
- (A) Village Panchayats (B) Uniform Civil Code
(C) Cottage Industries (D) International Peace
66. Name the Comptroller and Auditor General of India.
- (A) Vinod Rai (B) Shashi Kant Sharma
(C) V.N. Kaul (D) Rajiv Mehrishi
67. Who appoints the Chief Justice of the Supreme Court of India?
- (A) President (B) Prime Minister
(C) Home Minister (D) Law Minister
68. The 101st Constitutional Amendment Act 2016 is related to :
- (A) Income Tax (B) Goods and Services Tax
(C) Sales Tax (D) Entertainment Tax
69. When did Goa get separated from the Union Territory of Daman and Diu and achieve full statehood?
- (A) 1956 (B) 1971
(C) 1987 (D) 2000
70. NITI Aayog has replaced which of the following?
- (A) Planning Commission (B) Finance Commission
(C) GST Council (D) Inter State Council
71. Neither of the boys _____ left.
- (A) are (B) has
(C) being (D) have
72. Write the indirect speech of “Don’t Sleep” :
- (A) You ordered not to sleep
(B) You ordered to not sleep
(C) You are instructed not to sleep
(D) You are advised to not sleep

73. People play football all over the world. (Report the sentence)
- (A) People all over the world is played football
 (B) All the people played football
 (C) Football was played by all people in the world
 (D) Foot ball is played all over the world
74. _____ Rich should help _____ poor.
- (A) a, the (B) the, the
 (C) the, a (D) an, the
75. Neither food nor water _____ to be found there.
- (A) was (B) were
 (C) is (D) are
76. I hope the work will be finished _____ December.
- (A) in (B) by
 (C) on (D) at
77. Write the Synonym of the word – ‘sad’ :
- (A) Happy (B) Pathetic
 (C) Cruel (D) Unhappy
78. It is there he is hoping to _____ his message of hope.
- (A) get at (B) get into
 (C) get across (D) get away with
79. Write one word for “Killing of one’s own brother” _____.
- (A) Fratricide (B) Oedipus complex
 (C) Fatalist (D) Fenaticide
80. It is a _____ store.
- (A) Stationary (B) Stationery
 (C) Stationry (D) Steitionary

81. 'பூஜை' என்பதன் தூய தமிழ்ச்சொல் எது?
 (A) பூசை (B) அர்ச்சனை
 (C) வழிபாடு (D) பலி செலுத்துதல்
82. கீழே கொடுக்கப்பட்டுள்ளவற்றில் சரியான வாக்கிய அமைப்பு எது?
 (A) பாடம் எங்களால் படிக்கப்பட்டது (B) பாடத்தை நாங்கள் படிப்போம்
 (C) படித்தோம் நாங்கள் பாடத்தை (D) நாங்கள் பாடம் படித்தோம்
83. Mala is reading the book. இந்த வாக்கியத்தின் சரியான தமிழ் மொழிபெயர்ப்பு எது?
 (A) மாலா புத்தகம் படித்துக் கொண்டிருக்கிறாள் (B) மாலா புத்தகம் படித்தாள்
 (C) மாலா புத்தகம் படிப்பாள் (D) புத்தகத்தை மாலா படித்துவிட்டாள்
84. 'கொன்' என்னும் சொல்லுக்கு தொல்காப்பியர் குறிப்பிடும் பொருள் எது?
 (A) மடமை (B) பயிர்ப்பு
 (C) அச்சம் (D) நாணம்
85. பார், மன்பதை, தரணி, அகிலம் போன்ற பன்மொழிச் சொற்களின் பொருள் எது?
 (A) நோக்குதல் (B) உலகம்
 (C) உண்மை (D) உயரம்
86. 'இம்மை' என்ற சொல்லுக்கு எதிர்ச்சொல்லாக அமைவது எது?
 (A) வன்மை (B) வெம்மை
 (C) மறுமை (D) பெருமை
87. கல்வி சாராத பழமொழி எது?
 (A) இளமையிற் கல்
 (B) கல்வியில்லாச் செல்வமும்
 கற்பில்லா அழகும் பிரகாசிக்காது
 (C) கல்லானாலும் கணவன்
 புல்லானாலும் புருஷன்
 (D) கற்றது கைம்மண்ணளவு
 கல்லாதது உலகளவு
88. 'கிள்ளை' என்ற சொல்லுக்கு சமமான சொல்லாக நன்னூலார் குறிப்பிடுவது?
 (A) பருந்து (B) கிளி
 (C) கீரி (D) அணில்
89. வாழை + கன்று என்பதை சேர்த்தெழுதுக :
 (A) வாழை கன்று (B) வாழையின் கன்று
 (C) வாழையினுடைய கன்று (D) வாழைக்கன்று
90. ஆண்பாலுக்கு எடுத்துக்காட்டு :
 (A) மணி வந்தான் (B) மணி வந்தாள்
 (C) மணி வந்தன (D) மணி வந்தது

91. Choose the odd one out :
- (A) Printer (B) Keyboard
(C) Monitor (D) Projector
92. Number of Bits used in Binary Number System is :
- (A) 16 (B) 8
(C) 10 (D) 2
93. Which of the following is an Operating System?
- (A) Google (B) Yahoo
(C) Linux (D) Bing
94. Who is known as the father of computer science and Artificial Intelligence?
- (A) Bill Gates (B) Linus Torvalds
(C) Alan Turing (D) Dennis Ritchie
95. Which was the first Electronic Computer?
- (A) ENIAC (B) EDVAC
(C) UNIVAC (D) HARVARD MARK-1
96. Which of the following is a programming Language?
- (A) Http (B) Java
(C) Eclips (D) Android
97. Which robot got citizenship in Saudi Arabia in the year 2017?
- (A) Atlas (B) Kirobo
(C) Sophia (D) Namu
98. Step by step procedure to solve a problem is called :
- (A) Debugging (B) Algorithm
(C) Programming (D) Testing
99. Present CEO of Microsoft is :
- (A) Satya Nadella (B) Bill Gates
(C) Rajeew Suri (D) Sundar Pichai
100. First free email service for the public was :
- (A) Hotmail.com (B) Gmail.com
(C) Rediffmail.com (D) Yahoo.com

SPACE FOR ROUGH WORK

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