

089/2016

Maximum : 100 marks

Time : 1 hour and 15 minutes

1. Name the missionary organisation which established factories to provide employment to religious converts :
(A) Chirakkal Mission (B) Bassel Mission
(C) L M S (D) Salvation Army
2. Uralungal Labour Contract Society was formed under the Initiative of :
(A) Vagbhatananda (B) Sree Narayana Guru
(C) Swami Brahma vrutha (D) Sahodaran Ayyappan
3. Who among the following disagreed with the Paliyam Satyagraha?
(A) A.K. Gopalan (B) E.M.S Namboodiripad
(C) K. Kelappan (D) Arya Pallam
4. Name the woman freedom fighter who was forced to surrender her mangalyasooktham (Tali) to the colonial court :
(A) Anna Chandi (B) A.V. Kuttimalu Amma
(C) Akkamma Cherian (D) Lalitha Prabhu
5. The Madras Temple Entry Act was passed in the year :
(A) 1936 (B) 1938
(C) 1947 (D) 1948
6. Swadeshabhimani K. Ramakrishna Pillai was expelled from Thiruvithamkur through the royal proclamation issued in the year :
(A) 1910 (B) 1907
(C) 1916 (D) 1912
7. Mention the portfolio managed by Justice V.R. Krishna Iyer, when he was the minister in the Government of Kerala :
(A) Revenue (B) Home Department
(C) Finance (D) Agriculture

8. Who was the architect of the Ezhava Memorial?
 (A) G.P. Pillai (B) Dr. Palpu
 (C) C.V. Raman Pillai (D) Kumaran Asan
9. Who was the author of the work 'Odayil Ninnu' (Out of the Gutter)?
 (A) Thoppil Bhasi (B) Thakazhi Sivasankara Pillai
 (C) Ponkunnam Varky (D) Kesav Dev
10. Who among the following was associated with Forward Bloc founded by Netaji?
 (A) E.M.S Namboothiripad (B) K. Kelappan
 (C) Pattom Thanu Pillai (D) Muhammed Abdul Rahiman
11. Velutha, Ammu, Rahel these characters appear in the novel written by :
 (A) Arundhati Roy (B) Mary Roy
 (C) Akkamma Cherian (D) Sara Thomas
12. Centre for Development Studies was established by the Chief Minister :
 (A) E.K. Nayanar (B) P.K. Vasudevan Nair
 (C) C. Achutha Menon (D) A.K. Antony
13. The chairman of Western Ghats Ecology Expert Panel (WGEEP) was :
 (A) Kasthurirangan (B) Madhav Gadgil
 (C) Medha Patkar (D) Arundhati Roy
14. Ozone layer depletion is acute in :
 (A) Tibet (B) North America
 (C) India (D) Antarctica
15. The average temperature of Earth is :
 (A) 15°C (B) 22°C
 (C) 27°C (D) 11°C
16. Public Sphere is the concept developed by :
 (A) Voltaire (B) Karl Marx
 (C) Habermas (D) Althusser

17. 'India Against Corruption' movement was initiated by :
- (A) Mahatma Gandhi (B) Acharya Vinoba Bhave
(C) Medha Patkar (D) Anna Hazare
18. The 36th National Games of India will be held at :
- (A) Goa (B) Chennai
(C) Delhi (D) Ranchi
19. The urban population of world will increase to around 66% of the total population by :
- (A) 2100 AD (B) 2150 AD
(C) 2050 AD (D) 2075 AD
20. Kathakali was revived by :
- (A) Ullor S. Parameswara Ayer
(B) Vallathol Narayana Menon
(C) Kumaran Asan
(D) M.T. Vasudevan Nair
21. Which property of liquids is used in thermometer to measure temperature?
- (A) viscosity (B) radiation
(C) convection (D) expansion of liquid
22. Distance travelled by a body in unit time is called:
- (A) acceleration (B) velocity
(C) speed (D) momentum
23. Rear view mirrors used in vehicles are :
- (A) convex mirror (B) concave mirror
(C) plane mirror (D) none of these
24. If current I passes through a resistance R for t seconds what is the heat produced?
- (A) IRt (B) I^2Rt
(C) IR (D) I^2R

25. The force that keeps the planets in their orbits around sun is :
(A) electric force (B) magnetic force
(C) nuclear force (D) gravitational force
26. A Device that uses ultrasonic waves to measure distance, direction and speed of underwater objects is called :
(A) RADAR (B) SONAR
(C) LASER (D) None of these
27. Unit of pressure is :
(A) Pascal (B) Newton
(C) Joule (D) Watt
28. An astronaut goes from the earth to the moon. Which of the following is correct?
(A) his mass increases
(B) his mass decreases
(C) his weight decreases
(D) no change in his weight
29. When the driver of a moving bus suddenly applies brake, passengers fall forward due to :
(A) friction (B) inertia
(C) impulse (D) momentum
30. The material used in safety fuse in electrical circuits is :
(A) tungsten (B) copper
(C) alloy of tin and lead (D) alloy of copper and tin
31. The isotope of carbon which is known by the name *bucky balls* :
(A) Graphite (B) Diamond
(C) Fullerene (D) Coal
32. The number of molecules of H_2O present in 36g of H_2O is :
(A) 1 (B) $1 \times (6.022 \times 10^{23})$
(C) 2 (D) $2 \times (6.022 \times 10^{23})$

33. Which of the following elements possesses least ionization energy?
- (A) Li (B) Cs
(C) Fr (D) F
34. Cryolite is the mineral of which metal?
- (A) Al (B) Fe
(C) Zn (D) Cu
35. The enzyme which converts sucrose into glucose and fructose is :
- (A) Zymase (B) Invertase
(C) Diastase (D) Maltase
36. The chemicals which are used to reduce the body temperature are called :
- (A) Antipyretics (B) Analgesics
(C) Antiseptics (D) Antibiotics
37. Which of the following is a thermosetting polymer?
- (A) Polythene (B) PVC
(C) Nylon (D) Bakelite
38. The number of neutrons present in the element ${}^9\text{F}^{19}$ is :
- (A) 9 (B) 10
(C) 11 (D) 19
39. The IUPAC name of the compound $(\text{CH}_3)_4\text{C}$ is :
- (A) Tetra methyl methane (B) Tetra methyl ethane
(C) 2-Methyl propane (D) 2, 2-Dimethylpropane
40. The catalyst used in contact process is :
- (A) Powdered Fe (B) MnO_2
(C) V_2O_5 (D) CuCl_2

41. Vitamin required for the formation of the pigment rhodopsin :
(A) D (B) A
(C) E (D) K
42. An animal that lacks gall bladder :
(A) Man (B) Tiger
(C) Dog (D) Horse
43. Fehling's Solution is used to detect the presence of :
(A) Lipids (B) Starch
(C) Glucose (D) Sucrose
44. 20-25% of Carbon dioxide is transported from tissues to lungs as :
(A) Bicarbonates (B) Carbaminohaemoglobin
(C) Dissolved in plasma (D) Carboxyhaemoglobin
45. Which of the following organs contain voluntary muscles?
(A) Heart (B) Stomach
(C) Liver (D) Forelimb
46. The nitrogen base present only in RNA :
(A) Uracil (B) Thymine
(C) Guanine (D) Cytosine
47. The Theory of Natural Selection was proposed by :
(A) Lamarck (B) Wallace
(C) Darwin (D) Cuvier
48. The pH of saliva is :
(A) 5.8 (B) 6.1
(C) 7.8 (D) 6.7
49. Diabetes insipidus is caused due to the deficiency of the hormone :
(A) ADH (B) Insulin
(C) Glucagon (D) Thyroxine

50. A blood group that possesses both antibodies 'a' and 'b' but no antigen is :
- (A) A (B) O
(C) AB (D) B
51. Which phytohormone is known as 'fruit ripening hormone'?
- (A) Auxin (B) Gibberellins
(C) Cytokinin (D) Ethylene
52. The mineral element involved in the opening and closing of stomata is :
- (A) Potassium (B) Sodium
(C) Manganese (D) Calcium
53. Photosynthesis is maximum in :
- (A) Blue light (B) Red light
(C) Green light (D) Yellow light
54. Which cell organelle is commonly known as 'power house' of the cell?
- (A) Endoplasmic reticulum (B) Chloroplast
(C) Mitochondria (D) Golgi apparatus
55. Pollination in paddy is by :
- (A) Insects (B) Animals
(C) Water (D) Wind
56. In the food chain, producers form the :
- (A) First trophic level (B) Second trophic level
(C) Third trophic level (D) Fourth trophic level
57. Father of green revolution in India is :
- (A) Borlaug (B) M.S. Swaminathan
(C) P. Maheswari (D) R.H. Whittaker
58. Which one of the following is not a green house gas?
- (A) CO₂ (B) CH₄
(C) CFC_n (D) O₂

59. In plants, water rises upwards through :
- (A) Cambium (B) Phloem
(C) Xylem (D) Endodermis
60. Stem cutting is employed in propagation of :
- (A) Coconut (B) Tapioca
(C) Mango (D) Cotton
61. The train is _____ time.
- (A) on (B) in
(C) by (D) at
62. They won't attend the meeting :
- (A) did they? (B) will they?
(C) won't they? (D) does they?
63. The train _____ before we reached the station.
- (A) have left (B) was left
(C) had left (D) were left
64. He has brought the pen _____ I asked for.
- (A) Which (B) Whom
(C) Who (D) That
65. If you invited her, she _____ come.
- (A) would (B) will
(C) had (D) would have
66. She is not capable of _____ the work.
- (A) do (B) doing
(C) does (D) did
67. He said that his father _____ letters.
- (A) have writing (B) is writing
(C) was writing (D) were writing

68. The lion is ——— king of beasts.
(A) a (B) an
(C) at (D) the
69. There ——— a crowd of people in the street.
(A) was (B) were
(C) have (D) had
70. It ——— rain this evening.
(A) could (B) can
(C) may (D) is
71. A ——— of fish.
(A) Shoal (B) Troup
(C) Gang (D) Herd
72. Monks live in a :
(A) Orphanage (B) Monastery
(C) Convent (D) Igloo
73. A person who arrange funerals :
(A) Attorney (B) Magistrate
(C) Under taker (D) Sculptor
74. The antonym of the word 'Exonerate' is :
(A) Compel (B) Accuse
(C) Imprison (D) Boldness
75. A synonym for 'Mucilage' is :
(A) Priest (B) Penalty
(C) Gum (D) Muff
76. Select the correctly spelt word :
(A) Comprocessor (B) Comprcessor
(C) Comprocissor (D) Comproceesor

77. The wise servant _____ a plan to stop the beggar's cry.
- (A) Went on (B) Put forward
(C) Put in (D) Call for
78. Escalade + elevator means :
- (A) Escavator (B) Escalader
(C) Escalator (D) Escalevator
79. One who knows everything :
- (A) Optimist (B) Omniscient
(C) Omnipotent (D) Petulant
80. 'To sow wild oats' means :
- (A) To indulge in youthful frivolities (B) To do some acts of madness
(C) To do some mischief (D) To do some agricultural work
81. $27 + 6 (11 ? 8 + 14) = 129$. Which symbol comes in the place of ?
- (A) + (B) -
(C) × (D) ÷
82. What is the least possible number of stairs in a flight such that if one go up two at a time or three at a time or four at a time or five at a time, there is always an odd one at the top?
- (A) 121 (B) 31
(C) 61 (D) 91
83. The rational form of 12.3333 :
- (A) $\frac{12}{9}$ (B) $\frac{100}{9}$
(C) $\frac{121}{9}$ (D) $\frac{111}{9}$
84. $455 \times 455 - 345 \times 345$:
- (A) 207025 (B) 88000
(C) 119025 (D) 326050

85. If a car travels 660 kilometers in 12 hours, how far will it travel in 14 hours :
- (A) 700 (B) 750
(C) 770 (D) 740
86. $\frac{3^m}{3^4} = 6561$. The value of m is :
- (A) 8 (B) 4
(C) 12 (D) 0
87. If a person borrows Rs. 500 at 5% per annum. How much he will return after 4 years?
- (A) 550 (B) 600
(C) 500 (D) 575
88. Find the sum of all integers between 50 and 500 which are divisible by 7 :
- (A) 14560 (B) 16000
(C) 17696 (D) 17600
89. The value of $\sqrt[3]{\sqrt{0.000064}}$:
- (A) 0.08 (B) 0.8
(C) 0.02 (D) 0.2
90. The average age of three children in a family is 12. If their father and mother are included, there will be an increase of 8 years on the average. If mother's age is 6 years less than father's age, what is the age of father?
- (A) 35 (B) 36
(C) 34 (D) 38
91. A clock takes 6 seconds to strike 4 O'clock. How many seconds will it take to strike 8 O'clock?
- (A) 12 (B) 10
(C) 14 (D) 16
92. 32, 40, 44, 52, 56, ____ :
- (A) 72 (B) 76
(C) 80 (D) 64

93. 24, 46, 68, _____ :
- (A) 88 (B) 100
(C) 810 (D) 818
94. MNZ, LOY, KPX, JQW, _____ :
- (A) HSQ (B) IST
(C) IRV (D) HUV
95. Choose the odd one out :
- (A) 1225 (B) 3025
(C) 1825 (D) 2025
96. If South-West is called West, South-East is called South, North-East is called East and so on, then what is North called :
- (A) South (B) North-East
(C) North-West (D) West
97. The angle between hour hand and minute hand of a clock when time is 8.20 :
- (A) 120° (B) 100°
(C) 130° (D) 110°
98. 2802827582816285287892 In the given series how many 8's are preceded by 2 but not succeeded by 2 :
- (A) 7 (B) 4
(C) 1 (D) 3
99. Out of a group of 40 men, 15 play cricket, 25 play football and 5 play none. How many play both the games?
- (A) 5 (B) 8
(C) 9 (D) 10
100. If PLUS = 7331, EXTRA = 56291, CASE = 3115, Then code 75135 stands for :
- (A) PEACE (B) PRIZE
(C) TRACE (D) TEASE