

12/2015

Maximum : 100 marks

Time : 75 minutes

1. The year in which the film "Raja Harishchandra" was made :
(A) 1912 (B) 1913
(C) 1914 (D) 1915
2. The digital money for internet based business is :
(A) Byte coin (B) Net coin
(C) Bit coin (D) Coin dollar
3. Which is the first eco-tourism project in India?
(A) Pookode (B) Thenmala
(C) Iravikulam (D) Silent valley
4. What is the old name of INS Vikramaditya?
(A) Adm. Rustov (B) Adm. Pavlov
(C) Adm. Vogue (D) Adm. Gorshghov
5. What is Boat People problem?
(A) Refugee problem (B) Economic meltdown
(C) Political instability (D) Internal emergency
6. Who is world's first back pack journalist?
(A) Mark Bricks (B) Richard Keebles
(C) Kevin Sights (D) Edward Snowden
7. Name the Indian batsman who completed 100 one day matches without being selected for Indian test team :
(A) Dinesh Karthik (B) Rohit Sharma
(C) Suresh Raina (D) Virat Kohli

8. Telecom department stopped telegram service in India on :
- (A) 12th July 2013 (B) 13th July 2013
(C) 14th July 2013 (D) 15th July 2013
9. Which of the following does not belong to Delhi Sulthanate?
- (A) Sayed dynasty (B) Mughal dynasty
(C) Khilji dynasty (D) Slave dynasty
10. CRI Tamil radio is operated in :
- (A) China (B) Malaysia
(C) Japan (D) Indonassia
11. Which is the smallest national park in Kerala?
- (A) Silent Valley (B) Pampadum chola
(C) Iravikulam (D) Periyar
12. Which of the following personalities have the record of being a Member of Legislative Assembly for the longest period?
- (A) E. K. Nayanar (B) K. Karunakaran
(C) K. R. Gauramma (D) K.M.Mani
13. Which of the following High Courts has most number of states under its jurisdiction?
- (A) Mumbai (B) Calcutta
(C) Hariyana (D) Guwahati
14. Who coined the word "Sensex"?
- (A) Nirmal Verma (B) Harshad Metha
(C) Deepak Mohani (D) Dileep Chabria
15. The first Union Minister for Defence was :
- (A) Baldev Sigh (B) V. K. Krishna Menon
(C) Jawaharlal Nehru (D) Vijayakumar Sinha

16. Who translated the autobiography of Mahatma Gandhi into English?
(A) C. Rajagopalachari (B) Mahadev Desai
(C) C. N. Rau (D) Atmacharan Agarwal
17. Among the following rivers which one has the most number of tributaries?
(A) Brahmaputhra (B) Kaveri
(C) Sindhu (D) Ganga
18. The country in which the Jasmine Revolution was broken out :
(A) Egypt (B) Tunisia
(C) Libya (D) Yemen
19. Who accompanied Che Guera in his Motor Cycle adventure trips?
(A) Norio Oga (B) Jose Desparante
(C) Vangari Mathay (D) Alberto Granedo
20. Which district has the largest clay deposit?
(A) Kottayam (B) Pathanamthitta
(C) Kollam (D) Alappuzha
21. Name the commercial unit of electrical energy :
(A) kwh (B) Ampere
(C) Volt (D) ohm
22. Which planet in the solar system has lowest density?
(A) Venus (B) Saturn
(C) Mars (D) Moon
23. Name the device used to measure electric current :
(A) Voltmeter (B) Manometer
(C) Galvanometer (D) Ammeter

24. What is the frequency of A.C. used in India?
- (A) 60 Hz (B) 100 Hz
(C) 50 Hz (D) 40 Hz
25. The sky appear blue due to :
- (A) Refraction (B) Reflection
(C) Scattering (D) Dispersion
26. What is the principle of transformer?
- (A) Mutual induction (B) Self induction
(C) Ohms law (D) Magnetic effect of current
27. Name the device used to convert A.C to D.C :
- (A) Capacitor (B) Transistor
(C) Solar cell (D) Diode
28. Sound cannot travel through :
- (A) Steel (B) Diamond
(C) Vacuum (D) Soil
29. Name the source of energy in stars :
- (A) Fusion (B) Fission
(C) Burning of coal (D) None of the above
30. What is the speed of light in vacuum?
- (A) 340 m/s (B) 3000 m/s
(C) 3×10^8 m/s (D) 3×10^6 m/s
31. How many molecules are present in one mole of water?
- (A) 6.022×10^{22} (B) 6.022×10^{23}
(C) 6.022×10^{24} (D) 6.022×10^{20}

32. Molarity of one litre sodium hydroxide solution containing 40g sodium hydroxide is :
- (A) 1 molar (B) 0.5 molar
(C) 2 molar (D) 1.1 molar
33. How many grams of oxygen will be present in a vessel having volume 672 litres at STP?
- (A) 960 g (B) 900 g
(C) 930 g (D) 800 g
34. What is the mass of CO_2 produced by the combustion of 1 mole of butane
 $2\text{C}_4\text{H}_{10} + 13\text{O}_2 \rightarrow 8\text{CO}_2 + 10\text{H}_2\text{O}$?
- (A) 190 g (B) 160 g
(C) 176 g (D) 182 g
35. Which subshell is not possible?
- (A) 4d (B) 5s
(C) 3f (D) 2p
36. The industrial method of preparation of _____ is known as contact process.
- (A) HCl (B) HNO_3
(C) H_2CO_3 (D) H_2SO_4
37. Alcohols are functional isomers of :
- (A) aldehydes (B) ethers
(C) ketones (D) acids
38. Medicines used to lower body temperature are called :
- (A) antipyretics (B) antiseptics
(C) antioxidants (D) antibiotics
39. Ammonia is prepared in the laboratory by heating ammonium chloride with :
- (A) calcium chloride (B) sodium chloride
(C) ammonium carbonate (D) calcium hydroxide
40. The volume of a gas at a certain pressure is 300 ml at 27°C at what temperature its volume be reduce to 200 ml at the same pressure :
- (A) -73°C (B) 73°C
(C) 73 k (D) -73 k

41. Hyper secretion of growth hormone in adult causes :
(A) Gigantism (B) Acromegaly
(C) Cretinism (D) Simons disease
42. The chemical in cigarette smoke which cause cancer :
(A) Nicotene (B) Caffeine
(C) Benzene (D) Carbon monoxide
43. Valve that guards left auriculo-ventricular opening :
(A) Mitral valve (B) Tricuspid valve
(C) Semilunar valve (D) Inferior vena cava valve
44. Number of cranial nerves in human beings :
(A) 14 pairs (B) 10 pairs
(C) 12 pairs (D) 8 pairs
45. Haemoglobin is a :
(A) Fat (B) Carbohydrate
(C) Vitamin (D) Protein
46. AIDS attack :
(A) Immune system (B) Heart
(C) Stomach (D) Lungs
47. Oxygenated blood is carried by :
(A) Hepatic portal vein (B) Pulmonary artery
(C) Pulmonary vein (D) Renal vein
48. Deficiency of insulin results in :
(A) Diabetes insipidus (B) Myxoedema
(C) Diabetes mellitus (D) Dwarfism
49. Disorder caused by an extra copy of chromosome number 21 :
(A) Kline felters syndrome (B) Downs syndrome
(C) Turners syndrome (D) Alzheimers disease
50. Sickle cell anaemia is caused due to :
(A) Malaria (B) Anaemia
(C) Tetany (D) Gene mutation

51. Hydathodes in grasses help to :
- (A) Eliminate water as droplets
 - (B) Expel water as vapour
 - (C) Expel CO_2 formed during cell respiration
 - (D) Expel O_2 produced as by product of photosynthesis
52. One of the following is not a fungal disease :
- (A) Bunchy top of banana
 - (B) Coconut bud rot
 - (C) Koleroga in arecanut
 - (D) Quick wilt in pepper
53. 2, 4 Dichlorophenoxyacetic acid a selective weedicide is an example of :
- (A) Cytokinins
 - (B) Gibberellins
 - (C) Auxins
 - (D) Ethylene
54. Blight disease in paddy is caused by :
- (A) Fungus
 - (B) Virus
 - (C) Bacteria
 - (D) Aphids
55. Super bugs produced through genetic engineering is used :
- (A) to produce insulin
 - (B) to destroy pests
 - (C) remove oil spills
 - (D) to treat hereditary diseases
56. Element associated with opening and closing of stomata is :
- (A) Magnesium
 - (B) Calcium
 - (C) Iron
 - (D) Potassium
57. Hormone which promotes Apical dominance :
- (A) Cytokinins
 - (B) Gibberellins
 - (C) Auxin
 - (D) Ethylene
58. "Molecular glue" used in genetic engineering is :
- (A) Endonucleases
 - (B) DNA polymerase
 - (C) DNA ligase
 - (D) Exonucleases
59. Synthesis of chlorophyll in the presence of light is :
- (A) Phototropism
 - (B) Photoperiodism
 - (C) Photomorphogenesis
 - (D) Photolysis

60. Increased tolerance of plants to various kinds of stresses is due to :
- (A) Abscisic acid (B) Ethylene
(C) Auxins (D) Cytokinins
61. Ram as well as his brother _____ gone to Bombay.
- (A) is (B) are
(C) has (D) have
62. You had better :
- (A) go (B) to go
(C) going (D) would go
63. None of them has passed :
- (A) Have they (B) Haven't they
(C) Hadn't they (D) Had they
64. This is the place _____ we usually meet.
- (A) When (B) Who
(C) Which (D) Where
65. John : "Mary, give me your pen please" john requested mary :
- (A) To give him her pen (B) That to give her his pen
(C) That she gave him her pen (D) To gave him her pen
66. The gun went :
- (A) off (B) for
(C) of (D) in
67. Shakespeare is famous _____ a playwright.
- (A) as (B) for
(C) of (D) in

68. If you come late :
- (A) You would punish (B) You would be punished
(C) You will punished (D) You will be punished
69. The prime minister _____ for USA tomorrow.
- (A) Leaves (B) Would leave
(C) Leaving (D) Leave
70. The more you work :
- (A) Highest you reach (B) The higher you reach
(C) The hight you reach (D) The high you reach

Answer the question as directed :

71. The idea was helping to me :

A B C D

(Mark the wrong part of the sentence)

72. See the police the man ran away :

A B C D

(Mark the wrong part of the sentence)

73. Which is the correctly spelt word?

(A) Knowledge (B) Knolege
(C) Knowldg (D) Knowledg

74. The word which means "one who knows everything" :

(A) Omnipresent (B) Omniscient
(C) Omnipotent (D) Omniclient

75. Which is the wrongly spelt word?

(A) Curriculum (B) Sunami
(C) Feature (D) Superintendent

76. Which of the following is in the passive form?
 (A) She gave a party (B) A party gave to her
 (C) She was given a party (D) They gave a party
77. Which sentence is in the correct order?
 (A) Warming global is a serious problem (B) Global problem is a serious warming
 (C) Serious problem is a global warming (D) Global warming is a serious problem
78. By the time the manager arrived :
 (A) The work was done (B) The work had been done
 (C) The work was being done (D) The work has been done
79. A low continuous sound :
 (A) Chatter (B) Stammer
 (C) Roar (D) Murmur
80. What is the British equivalent to the underlined word?
 The drapes in my bedrooms are beautiful
 (A) Curtains (B) Photos
 (C) Doors (D) Windows
81. $\left(\frac{-5}{7}\right)^6 \div \left(\frac{-5}{7}\right)^3 =$
 (A) $\frac{125}{343}$ (B) $\frac{-125}{343}$
 (C) $\frac{343}{125}$ (D) $\frac{-343}{125}$
82. Find the value of $\left(1 + \frac{1}{2}\right)\left(1 - \frac{1}{2}\right)\left(1 + \frac{1}{3}\right)\left(1 - \frac{1}{3}\right)\left(1 + \frac{1}{4}\right)\left(1 - \frac{1}{4}\right)$:
 (A) 0 (B) $\frac{15}{8}$
 (C) $\frac{5}{8}$ (D) $\frac{18}{5}$
83. A shop keeper bought 18 oranges for Rs. 50/-. If he gets 20% profit how many oranges does he sell for Rs. 50/- ?
 (A) 12 (B) 14
 (C) 15 (D) 16

84. A man deposits Rs. 2000/- with a bank. If he gets Rs. 2,420 as compound interest at the end of the second year, what is the rate of interest?
 (A) 9% (B) 10%
 (C) 11% (D) 12%
85. The length of two rectangles is 12 cm and 10 cm, their breadth is 6 cm and 8 cm. What is the ratio of their areas?
 (A) 9:10 (B) 7:8
 (C) 6:8 (D) 10:9
86. A vessel in the shape of a cube contains one litre of water what is the length of its side :
 (A) 100 cm (B) 20 cm
 (C) 25 cm (D) 10 cm
87. Find the sum of all terms of the progression 120, 125, 130 ... 220 :
 (A) 3750 (B) 3570
 (C) 3075 (D) 3507
88. The average age of 24 students and their class teacher is 15. When the class-teacher is removed the average becomes 14. Then what is the age of the class teacher :
 (A) 38 (B) 40
 (C) 41 (D) 39
89. A train of length 140 m travels with a speed of 72 km/hr. The time taken by the train to pass a telephone post is :
 (A) 7 mts (B) 7 sec
 (C) 9 mts (D) 9 sec
90. There are 50 students in a class. If 20 students passed in Maths, 25 students passed in English and 15 students passed in both English and Maths. How many students passed neither in Maths nor in English?
 (A) 10 (B) 15
 (C) 20 (D) 25
91. Rahim bought an article for Rs. 1,600/- and sold it to Balan at a gain of 10%. Balan sold it to David at a gain of 10%. At what price did David buy the article for?
 (A) 1693 (B) 1936
 (C) 1396 (D) 1963
92. CFI, JMP, QTW, _____?
 (A) XAD (B) WYZ
 (C) XZB (D) XBD

93. Pick the odd man out :
- (A) 3 (B) 7
(C) 11 (D) 15
94. Ignorance : ————— ; Darkness : light.
- (A) Sun (B) Genius
(C) Knowledge (D) Intelligence
95. If 'LOYAL' is coded as 'JOWAJ' then 'PRONE' is coded as :
- (A) ORMNC (B) NRMND
(C) QRPNF (D) NRMNC
96. Priya started from a place and walked 4 km to the east. Then she turned left and walked 2 km. Again she turned left and walked 4 km. Now how far is Priya from the starting point?
- (A) 2 Km (B) 3 Km
(C) 4 Km (D) 5 Km
97. Ali bought a plate and a glass for Rs.110/- from the market. If the plate costs Rs.100/- more than the glass. How much does the plate cost?
- (A) 95 (B) 100
(C) 105 (D) 110
98. $\frac{-3+4-7}{(-1)^1+(-2)^2+(-3)^3} =$
- (A) $\frac{1}{3}$ (B) $\frac{1}{4}$
(C) $\frac{1}{5}$ (D) $\frac{1}{6}$
99. Find the angle between the hour hand and minute hand of a clock when the time is 9 : 30 :
- (A) 90° (B) 95°
(C) 100° (D) 105°
100. 125 cubic centimeteres means how much in liters?
- (A) 8 (B) $\frac{1}{8}$
(C) $\frac{3}{8}$ (D) 3