1. The blood vessels which carry blood from heart are called
a) artery   b) Vein   c) capillaries   d) vena cava

2. The first set of teeth that appear in childhood are called
a) Canines   **b) Milk teeth**
c) Wisdom teeth   d) Permanent teeth

3. The fins that help in changing direction while swimming are
a) Dorsal fins   b) Pectoral fins
c) Pelvic fins   **d) Caudal fins**

4. Culture of fish is called
a) Pisciculture   b) Sericulture
c) Vermiculture   d) Aquaculture

5. The functional unit of the skeletal muscie is
a) myosin   b) actin   **c) sarcomere**   d) myofibril

6. In a plant cell D.N.A. is found in
a) chloroplast   b) mitochondria
c) nucleus   **d) all of these**

7. A plant cell is distinguished from an animal cell by the presence of
a) chromosome   **b) cell wall**
c) cell membrane   d) nucleus

8. Which one of the following wavelengths of light is most effect Photosynthesis?
a) Blue   b) Green   c) Orange   d) Yellow
As for as TNPSC is considered the answer is BLUE.

9. The age of a tree can be calculated by
a) measuring its height
b) measuring its diameter
c) analysis of its sap
d) counting annual growth rings.

10. Epidermis, the outermost layer of leaf is perforated by small pores for gaseous exchange. These are called
a) hydathodes   b) stigmata   **c) stomata**   d) stroma

11. Which one of the districts in Tamil Nadu is having the highest literacy level?
a) Salem   **b) Kanniyakumari**   c) Madurai   d)d Trichy

12. In Tamil Nadu everyone must have education by the year . ... is the priority of the Government.
a) 2010   b) 2020   c) 2005   d) 2008

13. The population of Tamil Nadu in 2001 was
a) 62.1 millions   b) 61.2 millions
c) 60.1 millions   d) 64.2 millions

14. Day and night are caused by
a) revolution of earth   **b) rotation of earth**
c) gravitational force   d) none of these

15. Paradwip port is located in
a) Andhra Pradesh   b) Karnataka
c) Orissa   d) Tamil Nadu

16. Kaziranga National Park is located in
a) Bihar   b) Madhya Pradesh
c) Uttar Pradesh   **d) Assam**

17. Jute is largely cultivated in
a) West Bengal   b) Karnataka
c) Kerala   d) Tamil Nadu

18. The state with more females found is
a) Kerala   b) Maharashtra
c) West Bengal   d) Gujarat
The question should have been 'The state with more concentration of women in

19. South-West monsoon gives more rainfall to
a) Western Coast   b) Eastern Coast
c) Thar Desert   d) Malwa Plateau

20. Ship building industry is located at
a) Bangalore   b) Hyderabad
c) Cochin   d) Varanasi

21. Which part of the Constitution of India deals with citizenship?
a) I   **b) II**   c) III   d) IV

22) Which one of the following authorities is authorised by the Constitution to impose reasonable restrictions on Fundamental Rights?
a) The Parliament   b) The Supreme Court
c) The President   d) None

23) The President can be removed from his office through impeachment by the
a) Lok sabha
b) Supreme Court of India
c) Two Houses of Parliament
d) Council of Ministers

24) The Rajya Sabha consists of
a) 250 members   b) 270 members
c) 200 members   d) 230 members

25) The custodian of the legislature is
a) the Prime Minister   b) The President
c) The Vice-President   **d) the Speaker**

26) The Chief Justice and other Judges of the High Court hold office
a) till the age of 60 years   b) for life
c) till the age of 62 years   d) till the age of 58 years

27) The members of the UPSC are
a) elected by the people
b) elected by the Parliament
c) appointed by the President
d) appointed by the Council of Ministers.

28) Paying Income Tax signifies
a) traditional authority   **b) rational legal authority**
c) charismatic authority   d) all of these

29) In Tamil Nadu, head of the Panchayat is called the
a) Mayor   **b) Chairman**
c) Chief Minister   d) Prime Minister

30) India is a member of
a) U.N.O.   b) Non-aligned Movement
c) SAARC   **d) all of these**

31) If there were no atmosphere, what would be the colour of the sky?
a) Blue   b) White   c) Red   **d) Black**

32) In August, 2005 in USA, the name of the place where massive Hurricane occurred which killed more than 650 people is
a) New Orleans   b) California
c) Alaska   d) Texas

33) Tamil Nadu Explosives Ltd, is at
a) Vellore   b) Kanchipuram   c) Cheyyar   d) Vandavasi

34) Sun's energy is produced by
a) nuclear fission   **b) nuclear fusion**
c) burning of gases   d) presence of hydrogen

35) The Central Rice Research Institute of India is located at
a) Kolkata   **b) Cuttack**   c) Bangalore   d) Mysore

36) The widely used antibiotic Penicillin is produced by
a) an Alga   b) a Bacterium   **c) a Fungus**   d) a plant

37) Which is the largest single cell?
a) Ostrich egg   b) Paramoecium
c) Euglena   d) Hydra

38) The treatment given for kidney malfunctioning is
a) Dialysis   b) Accupuncture
c) E.C.G.   d) Angioplasty

39) Dronacharya Award is presented to a
a) Tennis player   b) Cricket player
c) Sports coach   d) Hockey player

40) A. Kathakali   1. Tamil Nadu
B. Odissi   2. Andhra Pradesh
C. Kuchipudi   3. Kerala
D. Bharata Natyam   4. Orissa
 a) 3 4 2 1   b) 3 2 1 4   c) 4 3 2 1   d) 2 3 1 4

41) AB and CD are two chords equidistant from the centre. If AB = 6 cm, then CD is equal to
a) 3 cm   **b) 6 cm**   c) 12 cm   d) 10 cm

The length of the chords equi-distances from the centre of a circle is same.

42) The radius and slant height of a right circular cone are 4 cm and 6 cm respectively. The curved surface area of the cone is
a) 12π cm^2 b) 12 cm^2 **c) 24π cm^2**   d) 24 cm^2

Formula: π rl $= \pi$ x 4 x 6

43) In a cyclic quadrilateral ABCD, if $\angle$ A= 100º then $\angle$ C =
a)100 º   **b)80 º**   c) 50º   d) 40 º

For a cyclic quadrilateral the sum of the opposite angles is supplementary i.e. 180 º

44) Which of the following is a point on 3x + 4y ≤ 7?
a) (1, 1)   b) (1,2)   c) (2,1)   d) (0,2)

Check for all points only the first point satisfies the given equation.

45) If sin θ = cos θ , then tan θ =
a) 0   **b) 1**   c) √2   d) √3

sin θ = cos θ the sin θ / cos θ = tan θ =1

46) Two lines are parallel is and only if
a) m$_1$ = m$_2$ b) m$_1$ = -m$_2$ c) m$_1$, m$_2$ = -1   d) m$_1$ = 1/m$_2$

Parallel lines have same slope

47) The least score of a cricket player of the school team is 5 runs in a series of ten matches. If his range of scores is 87, what is his highest score in the series?
a) 5   b) 82   c) 87   **d) 92**

Range= Largest – Smallest
87 = Largest – 5
Largest = 87 + 5 = 92

48) If one root of the equation 2x^2 - 11x – 6 = 0 is 6, then the other root is
a) ½   **b) -1/2**   c) -6   d) 1/6

If you do not know how to solve this quadratic equation does not matter, Just substitute the given values in the option. For example when x=-1/2 then the equation makes sense.

49) The great freedom fighter of Bangladesh was
a) Mahatma Gandhi   **b) Sheikh Mujibur Rehman**
c) Bhutto   d) Mao Tse-tung

50) The leader who strived for social justice in Tamil Nadu was
a) Periyar E.V.R.   b) Rajaji
c) Kamaraj   d) Annadurai

51) Joule's law of heating is given by
a) H = I R^{2}t   b) H=I^{2}Rt^2 **c) H =I^{2}Rt**   d) H=IRt^2

52) The persistence of vision is
a) 1/32s   b) 1/24s   **c) 1/16s**   d) 1/8 s

53) The unit of latent heat of fusion is
a) J kg^{-1} K^{-1} **b) J kg^{-1}**   c) J kg K^{-1} d) J K^{-1}

54) Which of the following is used as control rod in the nuclear reactor?
a) Cadmium   b) Boron   c) Hafnium   **d) All of these**

55) The centripetal force required by a car of mass 500 kg which takes a round turn of radius 50 m with a velocity of 20m s^{-1} is
a) 4000 N   b) 5000 N   c) 200 N   d) 1250 N

56) Sodium carbonate is used in
a) softening of hard water
b) fire extinguishers
c) ceramic industries
d) tanning industries

57) $CuSO_4$ + Zn -> $ZnSO_4$ + Cu ↓
a) gas   b) liquid   c) solid   **d) precipitate**

58) Which one of the following is correctly matched?
a) Ammonia   - Allotropy
b) Sulphuric acid   - Dehydrating agent
c) Sulphur dioxide   - Haber process
d) Sulphur   - Lightest element

59) An organic compound by the action of enzymes leads to the formation of smaller molecules. It is called
a) fermentation   b) esterification
c) oxidation   d) dehydrogenation

60) A catalyst used in the manufacture of ammonia by Haber process is
a) copper   **b) Iron**   c) Cobalt   d) Ammonium chloride

61) Where did Buddha give his first sermon?
a) Sarnath   b) Sanchi   c) Gaya   d) Varanasi

62) The Mathematics scholar who lived during the reign of Guptas is
a) Aryabhatta   b) Varahamihira
c) Brahmagupta   d) Banabhatta

63) The title 'Vathapi Kondan' was assumed by
a) Parameswara Varman   b) Mahendra Varman-1
c) Narasimha Varman-I   d) Simhavishnu

64) 'Ashtadiggajas' lived in the court of
a) Achutaraya   **b) Krishnadevarayar**
c) Ramaraya   d) Sadasivaraya

65) What was the main purpose of the invasion of Mahmood of Ghazni into India?
a) propagation of Islam
b) Extension of his empire
c) To acquire the wealth of India
d) As a sport

66) The distinguishing feature of Shah Jahan's reign was
a) economic prosperity
b) administrative efficiency
c) foreign policy
d) art & architecture

67) The father of local self-government in India is
a) Lord Canning   **b) Lord Ripon**
c) Robert Clive   d) Lord Dalhousie

68) Who introduced Ryotwari system in Tamil Nadu?
a) Lord Cornwallis   b) Lord Dalhousie
c) Sir Thomas Monroe   d) Lord Mayo

69) Pukar was the port city of
a) Cholas   b) Cheras   c) Pandyas   d) Pallavas

70) Who was the most illustrious king of the early Chera dynasty?
a) Ydiyan Cheral   b) Imayavaramban
c) Senguttuvan   d) Ilango Adigal

71) Tiger Economic Countries are
a) America, England   b) Russia, Germany
c) Thailand, Singapore   d) India, China

72) Suitable soil for cotton production is
a) Red soil   b) Hill soil
c) Black soil   d) Alluvial soil

73) The state which produced largest amount of tea is
a) Tamil Nadu   **b) Assam**   c) Karnataka   d) Kerala

74) For the development of India in 1950, Government of India started
a) Five-Year Plans   b) Green Revolution
c) Satellite
d) National Development Council

75) 'Tidal Park' is being promoted in Tamil Nadu for information Technology industry by
a) ELCOT & SIPCOT   **b) ELCOT & TIDCO**
c) TIDCO & SIPCOT   d) TIDCO & SIDBI

76)14 Commercial Banks were nationalized in the year
a) 1969   b) 1949   c) 1956   d) 1980

77)A. Chittaranjan   1. Rail Engine
B. Nepa Nagar   2. Railway Coaches
C. Mumbai   3. Newsprint
D. Jamshedpur   4. Cotton textile
                           5. Iron and Steel Industry
a) 1 3 4 5   b) 1 4 3 5   c) 2 3 4 1   d) 5 2 3 1

78) Manchester of India and Manchester of South India are
a) Delhi and Chennai   b) Kolkata and Chennai
c) Bangalore and Coimbatore
d) Mumbai and Coimbatore

79) India is the third largest producer of
a) Rice   b) Wheat   c) Jute   **d) Groundnut**

80)The gateway of Tamil Nadu is
a) Coimbatore   b) Chennai   **c) Tuticorin**   d) Madurai

81)Consider the following statements:
Assertion A: The partition of Bengal inspired the national consciousness.
Reason R : The partition of Bengal was an attempt to divide the homogeneous people.
a) Both A and R are true and R is the correct explanation of A
b) Both A and R are true, but R is not the correct explanation of A
c) A is true, but R is false
d) A is false, but R is true.

82) Which of the following is correctly matched?
A. Cabinet Mission – 1946
B. Partition of Bengal - 1906
C. The Cripps Mission – 1945
D. Individual Satyagraha - 1939

83) Put the following events in the correct chronological sequence:
I. Gandhi-Irwin Pact   II. Dandi March
III. Quit India Movement   IV. Lahore Congress
a) IV II I III   b) II III I IV   c) III II IV I   d) IV III II I

84) Who was the Congress President when India became free?
a) Mahatma Gandhi   **b) J.B. Kripalani**
c) Jawaharlal Nehru   d) Sardar Patel

85) Who was the Viceroy of India when the Quit India Movement started in 1942?
a) Linlithgow b) Wavell c) Willingdon   d) None of them

86) Kesari was
a) an organisation for social reform started by Tilak
b) an English language-paper owned by S.N. Bannerji
c) a Marathi newspaper
d) None of these

87) Who started the Forward Bloc Party in 1939?
a) Dr. B.R. Ambedkar   **b) Subhash Chandra Bose**
c) C.R. Das   d) None of them

88) Rajaji violated the salt laws at
a) Tiruppur   **b) Vedaranyam**   c) Maniachi d) Chennai

89) Who was given the title "Kadppalottiya Tamizhan"?
a) Subramaniya Siva   **b) V.O. Chidambaram Pillai**
c) Mahakavi Bharathi   d) Kumaran

90) The Tamilian who became the Home Minister of India in the interim government in 1946, was
a) Kamaraj   b) P.T. Rajan   **c) Rajaji**   d) None of them

91) The fastest train in India is
a) Taj Express   **b) Shatabdi Express**
c) Rajdhani Express   d) G.T. Express

92) Kargil war took place in the year
a) 2000   **b) 1999**   c) 1998   d) 1997

93) Murugappa Gold Cup is associated with
a) Hockey   b) Football   c) Cricket   d) Boat Racing

94) Sugar bowl of the world is
a) Cuba   b) Java   c) India   d) China

95) Queen of Arabian Sea is
a) Vishakhapatnam   b) Tuticorin
c) Kochi   d) Kandla

96) The song Vande Mataram was originally composed in
a) Assamese   b) Bengali   c) Hindi   **d) Sanskrit**

97) In modern times political rights are guaranteed to
a) all citizens   b) adult citizens
c) Property owners only   d) men only

98) The most densely populated state in India is
a) Uttar Pradesh   **b) West Bengal**
c) Tamil Nadu   d) Kerala

99) The 15th term of 40, 43, 46, ... is
a) 84   b) 83   **c) 82**   d) 80

n^{th} Term = a + (n-1) d
Where a = first term = 40
d=Common difference = 43-40=3
n = Number of terms = in this problem it is 15
There fore 40 + (15-1) x 3 = 82

100) The angle of elevation of the top of a tower at a distance of 100m is 45º. The height of the tower is
a) 100m   b) 50m   c) 200m   d) 25m
In the right angles triange the base is 100 mts and the angle is 45º , so the opposite side is the height of the tower.

$\tan \theta$ = tan 45 = height/100
Height/100 = 1
Height = 100