PART – A

Question No. **1 – 10** : Fill in the blanks with the most grammatically correct and meaningful option from those provided:

1. This book is _____ than any I have read.
   A) much interesting B) most interesting
   C) more interesting D) more interester

2. One must put in _____ best to achieve success.
   A) his B) one's C) our D) their

3. I think they _____ not know me.
   A) are B) does C) didn't D) do

4. She is too weak _____
   A) for running B) to run
   C) that she runs D) for run

5. Students should always be _____ towards their teachers.
   A) greatful B) respectful
   C) greetful D) approval

6. He said that he did not remember _____ me ever before.
   A) seeing B) seen
   C) having seen D) having saw

7. We were asked to write our answers _____ ink.
   A) with B) in C) from D) by

8. This matter is entirely between you and _____
   A) I B) we C) us D) me

9. _____ of any kind is harmful.
   A) Habitual B) Addiction
   C) Tradition D) Custom

10. The notice said that the meeting _____ at 9:30 am.
    A) beginning B) being begun
    C) would begin D) would be begin

11. Choose the appropriate answer for the following:

    Elegance : Vulgarity : : Graceful : ?

    A) Awkward
    B) Comely
    C) Asperity
    D) Dirty

12. Which number will come in the blank space ?

    1, 6, 13, 22, 33, _____

    A) 44
    B) 45
    C) 46
    D) 47

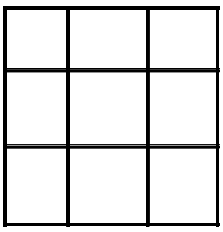
13. When Anuj saw Manish, he recalled, "He is the son of the father of my daughter." Who is Manish ?

    A) Brother-in-law
    B) Brother
    C) Cousin
    D) Uncle

14. A father tells his son, "I was of your present age when you were born." If the father is 36 now, how old was the boy 5 years back ?

    A) 13
    B) 15
    C) 17
    D) 20

15. The maximum number of squares in the following figure is :



    A) 14
    B) 13
    C) 10
    D) 9

16. Select the most suitable synonym for BENIGNITY

    A) boldness
    B) benevolence
    C) obscurity
    D) passivity

17. Select the most suitable antonym for DUCTILE

    A) opaque
    B) tensile
    C) coarse
    D) brittle

18. Identify the meaning of idiom "Cut no ice"

A) unable to perform
B) feel uncomfortable
C) come to nothing
D) have no influence or effect

19. Select the pair which shows the same relationship as the capitalized pair of words :
HORSE : RIDING

A) Car : driving
B) Cycle : peddling
C) Boat : voyaging
D) Skate : dancing

20. Choose the correct option :

5004/ 139 - 6 = ?

A) 24
B) 30
C) 36
D) 42

21. The average of first 50 natural numbers is

A) 12.25
B) 21.25
C) 25
D) 25.5

22. What is 15 percent of Rs. 34 ?

A) Rs. 3.40
B) Rs. 3.75
C) Rs. 4.50
D) Rs. 5.10

23. Sam purchased 20 dozens of toys at the rate of Rs. 375 per dozen. He sold each one of them at the rate of Rs. 33. What was his percentage profit ?

A) 3.5
B) 4.5
C) 5.6
D) 6.5

24. If 2A = 3B = 4C, then A : B : C is

A) 2 : 3 : 4
B) 4 : 3 : 2
C) 6 : 4 : 3
D) 20 : 15 : 2

25. In which country the new parliament building has been built by India ?

A) Bhutan
B) Afghanistan
C) Nepal
D) Maldives

PART – B

Select the most appropriate answer to the following questions.

26. As per National Malaria control programme, which of the following is an activity not carried out in areas with API<2 ?
    A) Source reduction around detected cases
    B) Fortnightly active and passive surveillance
    C) Follow up of subjects through blood smears
    D) Entomological assessment

27. Nalgonda technique is used for
    A) Disinfection of water sources
    B) Parboiling of rice
    C) Defluoridation of water
    D) Composting of solid waste

28. TheKilling power of a disease is measured using
    A) Proportional mortality rate
    B) Case Fatality Rate
    C) Crude death rate
    D) Age specific Rate

29. AGMARK standards are for
    A) Setting business standards
    B) Setting standards for milk
    C) Setting purity of gold
    D) Setting quality of food

30. Vital layer of slow sand filter is known as
    A) Schmutzdecke
    B) Underdrainage system
    C) Filter control
    D) Aeration chamber

31. Target diseases in “Vision 2020:the right to sight” includes all except
    A) Cataract
    B) Optic neuritis
    C) Refractive errors
    D) Glaucoma

32. Kata thermometer is mainly used for measuring
    A) Heat stress
    B) Cooling power of the air
    C) Humidity of air
    D) Wind direction

33. The date at which mid year population is normally computed is
    A) 1st January
    B) 1st April
    C) 1st July
    D) 31stMay

34. ICDS scheme is delivered in villages through
    A) Auxiliary nurse and midwifes
    B) Multipurpose workers
    C) Accredited social health activists
    D) Anganwadi workers

35. Sullivan's index measures
    A) Disability
    B) Life expectancy free of disability
    C) free of disability
    D) GNP

36. The First among major RCT was carried out for _____ drug
    A) Rifampicin
    B) Penicillin
    C) Sulphonamide
    D) Streptomycin

37. Dietary advice for a patient with coronary artery disease will involve all except
    A) Consumption of healthy diet
    B) Avoidance of smoking and alcoholism
    C) Increased consumption of dietary fibre
    D) Salt intake less than 0.5 g /day

38. The most important Rationale for randomization in RCT is
    A) Ensuring comparability between the two arms
    B) Balancing the number in both arms
    C) Balancing the exposure in both arms
    D) Ensuring effectiveness in both arms

39. What type of study is MRFIT ?
    A) Cross sectional study
    B) Cohort
    C) Case control
    D) Intervention

40. Epizootic is
    A) Out break of disease in birds
    B) Outbreak of disease among animals
    C) Outbreak of disease among human beings from animals
    D) Out break of disease among animals from human beings

41. Serial interval is
    A) Time gap between onset of primary and secondary cases
    B) Time gap between entry and multiplication of infective agents in human body
    C) Time gap between entry and development of symptoms in human beings
    D) Time gap between entry and onset of communicability in human beings

42. Chlorine demand is estimated by
    A) Horrock's apparatus
    B) Chlorinator
    C) Chlorometer
    D) Double pot method.

43. Which among the following is not true about network analysis?
    A) A network is graphic plan of all activities to be completed in order to reach an end objective.
    B) Basic technique of PERT can be equated to housewives who plan a meal.
    C) PPBS (planning-programming and budgeting system) is a type of network analysis which primarily is a system to help decision makers to allocate resources so that they are used in the most effective way
    D) Longest path of the network in the critical path method is called "Critical path"

44. Immunoglobulins seen in body secretions are
    A) Ig M
    B) Ig G
    C) IgA
    D) Ig E

45. DALY (Disability adjusted life years) is
    A) Killing power of the disease
    B) One of the Best measures of burden of disease in a defined population
    C) Death in a defined population
    D) Death among disabled population

46. In diagnostic evaluation of a test if:
    i) "A" is diseased and test positive.
    ii) "B" is not diseased test positive
    iii) "C" is diseased test negative
    iv) "D" is not diseased test negative

    Then positive predictive value is
    A) a/a+c
    B) b/a+c
    C) a/a+b
    D) b/a+b

47. The Most heat sensitive vaccine among the following is
    A) Polio
    B) HAV
    C) HBV
    D) BCG

48. Secondary response marks the production of _____ antibody.
    A) Ig M and IgA
    B) Ig A and Ig D
    C) Ig E and Ig D
    D) Ig A and Ig M

49. In diagnostic evaluation of a test if:
    i. "A" is diseased and test positive.
    ii. "B" is not diseased test positive
    iii. "C" is diseased test negative
    iv. "D" is not diseased test negative

    Then sensitivity is

    A) a/a+c B) b/a+c C) a/a+b D) d/a+b

50. In DOTS strategy 'D' & 'O' stand for which of the following
    A) Drug out B) Directly observed
    C) Daily observed D) Daily order

51. In national Blindness control programme, medical colleges are regarded as in
    A) Primary level B) Secondary level
    C) Tertiary level D) Centre of excellence

52. Frequency of malaria surveillance is
    A) Yearly B) Fortnightly C) Monthly D) Weekly

53. Which of the following can't be used to express sewage strength ?
    A) Biochemical Oxygen demand B) Chemical oxygen demand
    C) Absence of dissolved oxygen D) Suspended solids

54. All are measures of central tendency except
    A) Arithmetic mean B) Median C) Mode D) Range

55. All are arthropod borne diseases except
    A) Sleeping sickness B) Plague
    C) Scabies D) Brucellosis

56. Which of the following nutrient is generally not found in egg ?
    A) Vit C B) Calcium C) Vit B1 D) Fat

57. Weight of Indian reference woman is
    A) 55kg B) 60kg C) 65 kg D) 50kg

58. Approximate Calorie recommended for sedentary women/day is
    A) 2325 Cal B) 2850 Cal C) 1900 Cal D) 3800 Cal

59. Which of the following aminoacid is generally not found in pulses ?
    A) Lysine B) Methionine C) Glycine D) Proline

60. In a balanced diet, approximate proportion of protein energy to total energy requirement is
    A) 5% B) 12% C) 17% D) 25%

61. Which mosquito larva rest parallel to water surface and has no siphon tube ?
    A) Culex B) Anopheles C) Mansonia D) Aedes

62. Fatty acids are the precursors of all except
    A) Cholesterol B) Prostaglandins
    C) Bile pigment D) Bile salt

63. Pellagra is due to deficiency of
    A) Vit B1 B) Vit B2 C) Vit B3 D) Vit B6

64. Following can be used to monitor levels of air pollution except
    A) Coefficient of Haze B) Soiling index
    C) Total suspended solids D) Grit and dust

65. All of the following are examples of disaster mitigation except
    A) Disaster management systems and procedures in place
    B) Wave breakers in coastal areas
    C) Setting up of refugee camps
    D) Installing lightening rods

66. To prevent congenital rubella infection with immediate effect, the vaccine for rubella should be mainly administered to which of the following priority category ?
    A) Children currently aged 1-14 years
    B) All children of 1 year age
    C) Women of child bearing age (15-45)
    D) Women of age group >49 yrs.

67. Successful eradication of smallpox was due to all of the following except
    A) Subclinical cases transmitted the disease
    B) Infection provided lifelong immunity
    C) Highly effective vaccine was available
    D) Cross resistance existed with animal pox

68. Tuberculosis will be brought under control when the prevalence of infection is
    A) >1% in all children 0-5 years age group
    B) <1% in 0-14 age group of children
    C) <1% in 15-49 years of age group
    D) <2% in 0-20 years age group

69. Few people developed sudden onset of vomiting, abdominal cramps and diarrhoea in the middle of the night after dinner at 9.30 pm. The most likely cause of poisoning is
    A) Salmonella
    B) Staphylococcal
    C) Botulism
    D) Clostridium perfringens

70. Groups of errors that can affect internal validity is all except
    A) Selection bias
    B) Random error
    C) Information bias
    D) Confounding bias

71. When we reject null hypothesis the type of error likely to creep in is
    A) Standard error
    B) Residual error
    C) Type 2 error
    D) Type 1 error

72. James Lind 's experiment on scurvy can be broadlyclassified as
    A) Non-randomised trial
    B) Randomised trial
    C) Descriptive study
    D) Analytical study

73. While carrying out comparison between two categorical variables before and after intervention the most suitable statistical test used is
    A) Paired t test
    B) Freedman test
    C) Chi square test
    D) McNemartest

74. Preserving the culture of non use of tobacco among certain communities can be mainly termed as
    A) Primordial prevention
    B) Primary prevention
    C) Secondary prevention
    D) Tertiary prevention

75. Standard of living primarily depends on
    A) Housing
    B) Percapita GNP
    C) Income
    D) Occupation

76. World No Tobacco Day is observed on
    A) April 7 th
    B) May 31 st
    C) June 26th
    D) November 14th

77. When an individual is faced with a failure, sometimes she/he blames others for the failure. This defense mechanism is called
    A) Rationalisation
    B) Projection
    C) Compensation
    D) Escape mechanism

78. The infective agent of scrub typhus is
    A) Rickettsia prowazekii
    B) Rickettsia typhi
    C) Rickettsia tsutsugamushi
    D) CoxiellaBurnetii.

79. All of the following are zoonotic diseases except
    A) Ancylostomiasis
    B) Plague
    C) Leptospirosis
    D) Brucellosis

80. Infant mortality rate of Kerala(latest) is
    A) 16
    B) 20
    C) 12
    D) 8

81. Sampling method which ensure equal probability of being selected for each of sampling unit is
    A) Cluster sampling
    B) Systematic random sampling
    C) Stratified random sampling
    D) Simple random sampling

82. Ratio of incidence proportion of disease among exposed to incidence proportion of disease among non exposed is
    A) Odds ratio
    B) Risk ratio
    C) Attributable fraction
    D) Rate ratio

83. Sex ratio(per 1000 males)according to2011 census in India is
    A) 927
    B) 933
    C) 945
    D) 940

84. Chi square test is employed when the outcome and exposure variables considered are
    A) Categorical Vs Categorical
    B) Categorical Vs quantitative
    C) Quantitative Vs Quantitative
    D) More than two quantitative variables

85. Head Lice is associated with all the following diseases except
    A) Epidemic typhus
    B) Relapsing fever
    C) Dermatitis
    D) Scabies

86. Denominator in Incidence rate calculation is
    A) Number of affected population
    B) Total population
    C) Population at risk
    D) Mid year population

87. If an epidemic continues to more than one incubation period, the type of epidemic is all except
    A) Point source epidemic
    B) Continuous epidemics
    C) Propagated epidemics
    D) Slow epidemics

88. Mortality rate for a certain disease is 0.2 and 20 people are with the disease and the distribution is such that none will survive eventually. To estimate such an event we use which probability distribution
    A) Normal distribution
    B) Binomial distribution
    C) Poisson distribution
    D) Chi square test

89. Indication for the cohort study is all except
    A) There is good evidence of association between exposure and disease
    B) When exposure is rare and disease is common among exposed
    C) When attrition of the study can be minimized
    D) When we want to proceed from “effect to cause”

90. Population attributable risk means
    A) Extend of risk caused by the exposure
    B) Total risk experienced by the subjects
    C) Total incidence in the population minus the incidence among not exposed
    D) Total incidence in the population minus incidence among exposed

91. When the mean is more than the median,the probability distribution is
    A) Normal distribution
    B) Binomial distribution
    C) Positively skewed distribution
    D) Negatively skewed distribution

92. Blinding is a process employed in RCT to mainly
   A) Eliminate measurement errors
   B) Eliminate sampling error
   C) Eliminate type 1 error
   D) Eliminate type 2 error

93. Following criteria arestated for judging causality. One of them is essential and without which causality cannot be explained .
   A) Specificity of association
   B) Consistency of association
   C) Temporality of association
   D) Coherence of association

94. Following are the uses of epidemiology except
   A) Community Diagnosis
   B) Risk factor trials
   C) Health Planning
   D) Syndrome identification

95. First case occurring in a community/epidemic is known as
   A) Index case
   B) Sub clinical cases
   C) Primary case
   D) Secondary case

96. All of the following are transmitted transplacentally except
   A) Rubella virus
   B) Cytomegalo virus
   C) Herpes virus
   D) Tetanus

97. One of the following anti tubercular drug is relatively ineffective, for a subject taking oral contraceptive. The drug is
   A) Isoniazid
   B) Streptomycin
   C) Rifampicin
   D) Ethambutol

98. All of the following are live vaccines except
   A) Yellow fever
   B) BCG
   C) Mumps
   D) Diphtheria

99. One of the following scientists of the 19th century is noted for his major contribution to social medicine
   A) Robert Koch
   B) Rudolf Virchow
   C) Louis Pasteur
   D) John snow

100. All of the following variables are used to compute human development Index, except
   A) Life expectancy at birth
   B) Knowledge
   C) Standard of living
   D) Political participation

_____

SPACE FOR ROUGH WORK