NIFT TEA Scholarship cum Admission Test

Model Question Paper

Time allowed : 120 mins   **Max.Marks: 100**

Answer all questions. All carry equal marks.

<u>Numerical Aptitude & General Knowledge</u>

1. In a flower garden, there are 23 rose plants in the first row, 21 in the second row, 19 in the third row and so on. There are 5 rose plants in the last row. How many rows are there in the flower garden?
    A) 10   b) 12   c) 8   d) 9

2. In a town 85% of the people speak Tamil, 40% speak English and 20% speak Hindi. Also, 32% speak English and Tamil, 13% speak Tamil and Hindi and 10% speak English and Hindi, find the percentage of people who can speak all the three languages.

3. An amount Rs.500 is deposited in a bank which pays simple interest at the rate of 10% annually. In how many years the amount will be doubled?
    a) 5   b) 10   c) 8   d) 15

4. If a clock strikes once at 1 o'clock, twice at 2 o'clock and so on, how many times will it strike in a day?
    a) 78   b) 98   c) 156   d) 166

5. The 10th term of the sequence 1, 1, 2, 3, 5, 8, is
    a) 55   b) 34   c) 89   d) 45

6. The cost of 7 pencils and 3 erasers is Rs.17 and the cost of 7 pencils and 5 erasers is 19. The cost of 10 pencils and 10 erasers is
    a) Rs 30   b) Rs.25   c)Rs.35 d) Rs.40

7. In a rectangle, if the length is increased and the breadth is reduced each by 2 cm then the area is reduced by 28 cm^2 . If the length is reduced by 1 cm and the breadth increased by 2 cm, then the area increases by 33 cm^2 Find the area of the rectangle(cm^2).
    a) 253   b) 225   c) 286   d)250

8. Find the range of the following data: 25, 67, 78, 43, 21, 17, 49, 54, 76, 92, 20, 45, 86, 37
    a) 78   b) 75   c) 92   d) 86

9. A is B's Sister, C is B's mother, D is C's father, E is D's mother. Then A is the _____ of D
    a) Grandmother   b) Grandfather   c) Daughter   d) Grand daughter

10. Find out the missing term in the given alphabet series.
    AZ, GT, MN, _____, YB
    a) JH   b) SH   c) SK   d) TS

11. 7 men complete work in 52 days. In how many days will 13 men finish the same work?
    a) 20   b) 13   c) 7   d) 28

12. If the length of a triangle is decreased by 50% and the breadth is increased by 80%, then the % change in the area of rectangle is
    a) Decreased by 10%   b) decreased by 20%   c) increased by 10%   d) increased by 20%

13. The average of 14 observations is 25 and when a quantity is added to each value, the average is 28
    a) 2   b) 3   c) 4   d)5

14. The base of a triangle is 4 cm longer than its altitude. If the area of the triangle is 30 sq. cm, then find its base and altitude.

a) 6 & 10   b) 10 & 14   c) 10 & 6   d) 14 & 10

15. The mean of 50 observations was 200. It was found later that an observation 48 was wrongly taken as 28. The corrected mean is
    a) 204   b)200.4   c) 240   d)212

16. Sum of three consecutive numbers is 138. The smallest number is
    a) 45   b) 46   c) 47   d) 48

17. The difference between the ages of two persons is 10 years. Fifteen years ago, the elder one was twice as old as the younger one. The present age of the older person is
    a) 25 years   b) 35 years   c) 40 years   d) 40 years

18. What percent of 7.2 kgs is 18 grams?
    a) 0.025   b) 0.25   c) 2.5   d) 25

19. If the standard deviation of a set of data is 1.6, then the variance is
    (A) 0.4   (B) 2.56   (C) 1.96   (D) 0.04

20. There are 7 defective items in a sample of 35 items. The probability that an item chosen at random is non-defective.
    a) 4/5   b) 3/5   c) 6/7   d)1/5

21. If 30 students were made to stand in a column, then 16 columns could be formed. If 24 students were made to stand in a column, then how many columns could be formed?
    a) 20   b) 24   c) 22   d)26

22. If one third of a tank holds 80 liters of water, then the quantity of water half of the tank holds is
    a) 240 liters   b) 80/3 liters   c) 120 liters   d) 100 liters

23. By selling 33 meters of cloth, one gains the selling price of 11 meters. The gain percent is
    a) 25%   b) 50%   c) 33%   d) 20%

24. In a class 10% of boys are same in number as $1/4^{th}$ of girls. The ratio of boys to girls is
    a) 3:2   b) 5:2   c) 2:1   d) 4:3

25. A train 360 meters long is running at a speed of 45 kmph. In what time will it pass a bridge 140 meter long?
    a) 40 sec   b) 25 sec   c) 50 sec   d) 55 sec

26. Radius of a wheel is 0.25 m. How many rounds will it take to complete the distance of 11 km.
    a) 2800   b) 7000 c) 4000   d) 5500

27. The marked price of a table is Rs 3000 and is available at successive discounts of 20% and 10% respectively. If there is an additional discount of 5% on cash payment, then what is the cash price of the table?
    a) Rs 2400   b) Rs 2160   c) Rs 2100   d) Rs 2052

28. Three cards are drawn at random from an ordinary pack of cards. Find the probability that they will consist of a king, a queen and an ace.
    a) 63/2210   b) 66/2210   c) 64/2210   d) 65/2210

29. Which of the following is larger than 3/5?
    a) 1/2   b) 39/50   c) 3/10   d) 59/100

30. Two cars are 15 kms apart. One is turning at a speed of 50kmph and the other at 40kmph . How much time will it take for the two cars to meet?
    a) 3/2   b) 1/3   c) 2/3   d) 3

31. Who is the founder of 'Face Book'?
    a) Bill Gates   b) MartinCooper   c) OrkutBuyukkokten   d) Mark Zuckerberg

32. What is the full form of NATO?
    a). North Atlantic Treaty Organization   b). North Asia TradeOrganization

c). North AtlanticTrade Organization   d) .North Asia Treaty organization

33. Write the expansion for ISRO
    a) Indian Space Research Organization b) Indian Space Reserve Organisation
    c) Indian State ReserveOrganisation   d) Indian StateReserve Organization

34. National Voters' Day will be observed on
    a) January 20   b) January 25   c) January 10   d) January 15

35. DRDO came into existence in ___.
    a) 1960   b) 1958   c) 1962   d) 1965

36. Eco Mark' is given to the Indian products that are ____.
    a) pure and unadulterated   b) rich in protein   c) economically viable   d) environment friendly

37. When is the National Youth Day observed?
    a)January 14   b) August 31   c) February 14   d) January 12

38. Who is known as the "Father of the Green Revolution in India"?
    a) M. S. Swami Nathan b) S. Thomson c) Norman Ernest Borlaug   d) None of these

39. In which country would you buy things using Lira?
    a) USA   b) Germany   c) Italy   d) Myanmar

40. What is the full form of the term "ISO"?
    a) Insurance & Social Obligations   b) International Space Organization
    c) Integrated Security Organization   d) International Standards Organization

41. Which country won the Cricket World Cup in 2015?
    a) Australia   b) Pakistan   c) South Africa   d) England

42. Deuce is a term used in ____.
    a) Hockey   b) Football   c) Tennis   d) Snooker

43. Who has scored the most Test hundreds ever?
    a) Steve Waugh b) Sachin Tendulkar   c) Shane Warne   d) Sunil Gavaskar

44. Blood clotting is due to
    a) RBC   b) WBC   c) Platelets   d) Lymphocyte

45. Solar energy is derived from
    a) Wind   b) Water   c) Sun   d) Chemical

46. What is the pulse rate of an average healthy human being?
    a) 72 beats per minute b) 16 beats per minute c) 65 beats per minute   d) 100 beats per minute

47. The most highly intelligent mammals are
    a) Whales   b) Dolphins   c) Elephants   d) Kangaroos

48. Washing soda is the common name of
    a) Calcium carbonate   b) Calcium chloride   c) Sodium carbonate   d) Sodium Bicarbonate

49. The most influential non-school educative agency is
    a) Church   b) Cinema   c) Television   d) Home

50. Reduction is
    a) Gain of oxygen   b) Gain of hydrogen   c) Removal of metallic element   d) Loss of electrons

51. HIV is related to
    a) Common cold   b) Infectious hepatitis   c) Failure of immune system   d) Serum virus

52. The octal equivalent of 111010 is ___.
    a) 81   b) 72   c) 71   d) None of above

53. CAD stands for ____.
    a) Computer aided design   b) Computer algorithm for design
    c) Computer application indesign d) All of the above

54. Portrait and Landscape are ___.
    a) Page Orientation   b) Paper Size   c) Page Layout d) All of above

55. What is the period of Lok Sabha?
    a) Four years   b) Six years   c) Five years   d) Three years

56. The Party started by Hitler was called ___.
    a) Nazi   b) Fascist   c) Socialist   d) Communist

57. Panjali Sabatham was written by ____.
    a) Subramaniya Bharathi   b) V.O.Chidambaram Pillai   c) Bharadithasan   d) Kannadasan

58. Malnourishment means ____.
    a) Person gets a balance diet   b) Person gets the extra diet   c) Person does not get adequate food
    d) None of these

59. Who is the leader of the Lok Sabha?
    a) Prime Minister   b) Speaker,Lok Sabha   c) Vice –President   d) President

60. "Yathum oorey Yavarum Kelir" are the words of ___.
    a) Iyanaari Thanaar   b) Thiruvalluvar c) Elangovadikal   d) Kaniyan Poongundranaar

61. Which country does 'Haiku' poems belong to?
    a) America   b) Russia   c) Japan   d) China

62. "Sakunthalam" was written by ___.
    a) Bhavabhuti   b) Sankara   c) Kalidasan   d) Bhasan

63. 'Manimekalai' belongs to
    a) Jainism   b) Saivam   c) Buddism   d) Vaishnavam

64. Meteorology is the science of
    a) Weather   b) Meteors   c) Metals   d) Earthquakes

65. Ozone hole refers to
    a) Increase in the thickness of ozone layer in troposphere   b) Decrease in the ozone layer in troposphere
    c) Decrease in thickness of ozone layer at stratosphere.   d) A hole in ozone layer.

66. SAFTA stands for _____.
    a) South Asia Free Trade Agreement   b) South African Federation for Tribal Advancement
    c) South Asian Forum for Tourism Agreements d) None of the above

67. Dark energy makes up ___ of the Universe
    a) 65 percent   b) 54 percent   c) 74 percent   d) 83 percent

68. Which of the following is a public sector unit?
    a) TCS   b) ICICI bank   c) TESCO   d) BHEL

69. The threat of global Warming is increasing due to rising concentration of?
    a) Nitrous Oxide   b) Ozone   c) Sulphur dioxide   d) Carbon dioxide

70. Nuclear reactors that are used to produce electricity are based on ___.
    a) Nuclear Fusion   b) Nuclear Fission   c) Cold Fusion d) Super conductivity

General English

Choose the Accurate synonyms for the four given:

1. He was **Ambitious------**

    a. Those who cherish great vision and fix high target propel their country forward
    b .He cannot plan beyond tomorrow
    c. Mr.Prem doesn't have any aim in life
    d. sages lead a contended life

2. Ganga Ram was **Squashed------**
    a.the leader was etated   b.Reema was thrilled
    c. Ramu was subdued   d. Radha was conceited

3. Clampa is on a **Trekking** trail----
    a. Swimming in my hobby   b.reading is an interesting things
    c.Gardening is a beautiful hobby   d.climbing mountains is a challenging exercise

Antonyms:

   1. Who is So Rude
      a. Immodest   b. stubborn   c. arrogant   d. polite

   2. The earth which had laid Parched
      a. moist   b. hot   c. withered   d. wet

   3. The sun was eclipsed
      a. exposed   b. made unimportant c. over shadowed d. over power

Make plural form of the words given
   1.   Datum   2. Tooth   3. Focus

Expand the abbreviation:
   1.   B.L   2. TB   3. PTO

Form a word by blending :
 1.Breakfast+ lunch   2. Medical + care   3. Smoke+fog

Form compound words
1.Noun+Verb   2. Noun + Gerund   3. Preposition + Noun

Use the correct Model in the following:
   1.   I ------need your help
   2.   You--- go
   3.   ---- God bless you

Make a proper verb for the following :
1. I ------ (see) all his movies
2. She ----- (break) the Glass
3. She ----- (have) a new bike

Fill in the blanks with suitable relative pronoun :
   1.   The pen ---- I bought yesterday is missing
   2.   A Glass ----is empty Cannot be full
   3.   The man ------is honest is trustier

Fill in the blanks with suitable preposition:
   1. He is a man---- means
   2. Show me how----do it
   3. The river dried up------time

Questions for Designing students

Time allowed: 30 mins   **Max.Marks: 50**

A student may choose any one of the following themes

1. Make a floral design for a kid of 6 years girl using geometrical patterns.
2. Draw two accessories exclusive for the use of an office-goers male customer.
3. Make a landscape drawing for evening sunset or morning sunrise.
4. Render the 3D drawing for the given object: 1. Pen stand2. Table Calendar
5. Draw a situation in detail: 1. Temple Festival   2.Childrens Park