

**INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, DESIGN AND
MANUFACTURING, KANCHEEPURAM**

Written Test (Level-1)

JUNIOR ASSISTANT

21/12/2019

Maximum Marks : 100

Time Allowed : 2 hrs

Application No./Roll No.

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Name of Candidate _____

Father's Name _____

Category _____

Date of Exam _____

Instructions

1. Attempt all questions
2. Pl. follow the instructions as given.

Signature of the Candidate

Signature of the Invigilator

Marks Obtained

1. In figures
2. In words

SECTION-I

Fill In the blanks with suitable words(Q.1 – 5)

1. _____ most interesting book on _____ history of primates is now on _____ bookstand.
(A) The, an, (B) The, the, the
(C) An, the, the (D) A, the, an
2. He hired a taxi so that he _____ catch the train.
(A) would (B) might
(C) should (D) could
3. For centuries, physicists have had good reason to believe in the principle of equivalence propounded by Galileo: it has _____ many rigorous tests that _____ its accuracy to extraordinary precision.
(A) endured, compromised (B) passed, presupposed
(C) borne, postulated (D) survived, proved
4. Among contemporary writers of fiction, Virginia Woolf is _____ figure, in some ways as radical as James Joyce, in others no more modern than Jane Austen.
(A) a doctrinaire (B) an introspective
(C) an anomalous (D) a disinterested
5. He told me that all roads _____ by tomorrow
(A) Will be swept (B) would swept
(C) would be swept (D) would sweep

Find out the closest antonyms of the following words(Q6-10)

6. Repudiate
(A) Mislead (B) minimize
(C) Ascertain (D) Accept
7. Aloofness
(A) Concern (B) Simplicity
(C) Exaggeration (D) Complacency
8. We have no **veracity** of the statement
(A) truthworthiness (B) morality
(C) duplicity (D) politeness

9. Her teacher's point of view was correct but her behaviour with her student was quit **arrogant**.

(A) smooth

(B) healthy

(C) impressive

(D) courteous

10. There was **dismal** atmosphere in the waiting room of the defeated team

(A) gloomy

(B) cheerful

(C) jovial

(D) dreadful

There is some sort of relationship between the two words asked in questions(11-15). Choose the same sort of relationship given in the four alternatives –

11. Influenza : Virus :: Typhoid :

(A) Parasite

(B) Bacillus

(C) Protozoa

(D) Bacteria

12. Overweight is to Dieting as

(A) Exercise is to Race

(B) Fatigue is to resting

(C) Underweight is to Gourmet

(D) Obesity is to Overeating

13. Professor : Erudite ::

(A) Overseer : Wealthy

(B) Moderator : vicious

(C) Inventor : Imaginative

(D) Aviator : Licensed

14. Phobic : Fearful ::

(A) Asinine : Silly

(B) Finicky : Thoughtful

(C) Shy : Familiar

(D) Envious : Desiring

15. Word : Newspaper

(A) Centre : Circumference

(B) Point : Lane

(C) Line : Circle

(D) Triangle : Square

Directions (Q.16–20): Read the following passage carefully and answer the questions given below it.

The King of Kanchi set off to conquer Karnat. He was victorious in battle. The elephants were laden with sandalwood, ivory, gold and precious stones taken from the conquered kingdom of Karnat. They would be a part of the victory parade for his subjects. On his way back home, he stopped at a temple; finished his prayers to the goddess and turned to leave. Around his neck was a garland of scarlet hibiscus and as was the custom for all, his forehead was anointed with red sandal paste. His Minister and the court jester were his only

companions. At one spot, in a mango grove by the wayside, they saw some children were playing. The King said, Let me go and see what they are playing. The children had lined up two rows of clay dolls and were playing warriors and battles. The King asked, Who is fighting whom? They said, Karnat is at battle with Kanchi.

The King asked, Who is winning and who is the loser? The children puffed their chests up and said, Karnat will win and Kanchi will lose. The Minister froze in disbelief, the King was furious and the jester burst into laughter.

The King was soon joined by his troops and the children were still immersed in their game. The King commanded, Cane them hard. The children's parents came running from the nearby village and said, They are naive, it was just a game, please grant them pardon. The King called his commander and ordered; teach these children and the village a lesson so that they never forget the King of Kanchi. He went back to his camp. That evening the Commander stood before the King. He bowed low in shame and said, Your Majesty, with the exception of hyenas and vultures, all lie silent in the village. The Minister said, His Majesty's honour has been saved. The priest said, the goddess has blessed our King. The jester said, Your Highness, please grant me leave to go now. The King asked, but why? The jester said, I cannot kill, I cannot maim, and I can only laugh at God's gift of life. Trembling in the face of the king's anger he bravely continued, if I stay in your Majesty's court, I shall become like you and I shall forget how to laugh.

16. Why was the king angry with the children?

- (A) Because the game they were playing was dangerous
- (B) They had lied to him
- (C) They did not recognize him as king
- (D) They had unknowingly insulted him

17. What excuse was given for the children's behaviour?

- (A) They were disobedient to their parents' wishes
- (B) They were unaware of the true facts of the battle
- (C) They were upset that their army had lost
- (D) They were in the habit of lying

18. Why did the jester laugh at the children's reply to the king?

1. They correctly predicted the outcome of the battle.
2. Their reply was cheeky because they knew he was the king.

3. He wanted to show that their reply was a joke to save them from being punished by the king.

(A) Only 1

(B) Both 1 and 2

(C) Only 3

(D) None of these

19. Why were the elephants carrying loads of gold and other valuables?

(A) This was what the king had looted from Karnat to distribute among his soldiers as a reward

(B) This was the king's offering to the deity out of gratitude for making him victorious

(C) It was what the king had plundered from Karnat to display to the people of his kingdom as a sign of victory

(D) So that the people of the kingdom of Karnat acknowledged him as their King.

20. Which of the following cannot be said about the jester?

1. He was not a loyal subject of the King.

2. He was afraid of the King's temper.

3. He did not support the King's war against Karnat.

(A) Both 1 and 3

(B) Only 1

(C) Both 1 and 2

(D) All 1, 2 and 3

In each of the following questions(Q.21-25) find the correctly spelt word.

21. 1. Reannaisance

2. Renaissance

3. Rennaissance

4. Renaissance

(A) 1

(B) 2

(C) 3

(D) 4

22. 1. Recommandation

2. Recommendation

3. Recomandation

4. Recommendation

(A) 1

(B) 2

(C) 3

(D) 4

23. 1. Hindrence
2. Hindrance
3. Hinderence
4. Hinderance

(A) 1 (B) 2 (C) 3 (D) 4

24. 1. Lackdaisical
2. Lackdaisicle
3. Lackadaisical
4. Lackdaisical

(A) 1 (B) 2 (C) 3 (D) 4

25. 1. Apprentice
2. Aprentice
3. Aparentice
4. Apperentice

(A) 1 (B) 2 (C) 3 (D) 4

SECTION-II

26. A number when divided by 195 gives a remainder 47. What will be the remainder when the same number is divided by 15 and 13 respectively?

(A) 2, 8 (B) 4, 5 (C) 3, 9 (D) 7, 9

27. $\frac{17.3 \times 17.3 \times 17.3 + 7.3 \times 7.3 \times 7.3}{17.3 \times 17.3 - 17.3 \times 7.3 + 7.3}$

(A) 10 (B) 24.4 (C) 24.6 (D) 28

28. A father is 5 times as old as his son. In 15 years, he will be two and half times as old as his son. Find the present age of father.

(A) 9 years (B) 18 years (C) 27 years (D) 45 years

29. A labourer was engaged for 25 days, on the condition that for every day, he works, he will be paid Rs.2 and for every day he is absent, he will be fined 50 P. If he received only Rs. 37.50. For how many days did he work?

(A) 24 days (B) 22 days (C) 15 days (D) 20 days

30. A line passing through (2,2) is perpendicular to the line $3+y=3$. Its y intercept is
(A) $1/3$ (B) $2/3$ (C) 1 (D) $4/3$
31. The least multiple of 7 which when divided by 8,12 and 16 leaves as remainder 3 is
(A) 147 (B) 51 (C) 99 (D) 157
32. How many times is 4 hours 40 minutes contained in 1 hour 45 minutes?
(A) $8/3$ (B) $5/8$ (C) 4 (D) $3/8$
33. A clock strikes once at 1 O'clock, twice at 2 O'clock, thrice at 3 O'Clock etc. The number of times it will strike in a day is
(A) 300 times (B) 156 times (C) 24 times (D) 152 times
34. If three numbers in the ratio 3:2:5 are such that the sum of their squares is equal to 1862. What is the middle one?
(A) 14 (B) 21 (C) 35 (D) 196
35. Rs. 49 were divided among 150 children. Each girl got 50 paise and a boy 2 paise. How many boys were there?
(A) 96 (B) 104 (C) 196 (D) 204
36. In measuring the sides of a rectangle, one side is taken 5% in excess, and the other 4% in deficit. The error % in the area calculated from this measurement is
(A) 20% less (B) 20% excess (C) $4/5$ % less (D) $4/5$ % excess
37. By selling goods for Rs. 153, a man loses 10%. For how much should he sell them to gain 20%.
(A) 104 (B) 204 (C) 208 (D) 216
38. Walking $\frac{3}{4}$ of his usual rate, a man reaches his office 20 minute too late. Find his usual time.
(A) 1 hour (B) 2 hour (C) 3 Hour (D) 4 hour

39. How much of 6% stock at 125 must be purchased to get an annual income of Rs. 1440.
(A) Rs. 3000 (B) Rs. 6000 (C) Rs. 12000 (D) Rs. 24000
40. The perimeter of a rectangular field is 480 meters and the ratio between the length and breadth is 5 : 3, the area is
(A) 1150 sq m (B) 12500 sq m (C) 13500 (D) 14500
41. The radius of a circular wheel is $1\frac{3}{4}$. How many revolutions will it make in travelling 11 km?
(A) 100 (B) 1000 (C) 1100 (D) 11000
42. The arithmetic mean of 6 numbers is 17. If two numbers are added to the progression, the new set of numbers will have an arithmetic mean of 19. What are the two numbers if their difference is four?
(A) 21, 25 (B) 23, 27 (C) 8, 12 (D) 16, 20
43. It takes Merry twice as long as John to do a certain piece of work. Working together, they can finish the work in 6 hours. How long could it take John to do it alone?
(A) 9 hours (B) 18 hours (C) 12 hours (D) 14 hours
44. How many 4 digit numbers can be formed without repeating any digits from the following digits: 1, 2, 3, 4 and 6?
(A) 120 (B) 130 (C) 140 (D) 150
45. In how many ways can you invite one or more of your five friends in a party?
(A) 15 (B) 31 (C) 36 (D) 25
46. From a box containing 6 red balls, 8 white balls and 10 blue balls, one ball is drawn at random. Determine the probability that it is red or white.
(A) $\frac{1}{3}$ (B) $\frac{7}{12}$ (C) $\frac{5}{12}$ (D) $\frac{1}{4}$
47. The side of a regular pentagon is 25 cm. If the radius of its inscribed circle is 15 cm, find the area of the pentagon.
(A) 937.5 cm² (B) 784.6 cm² (C) 825.75 cm² (D) 857.65 cm²

48. How many diagonals can be drawn from a 12 sided polygon?
 (A) 66 (B) 48 (C) 54 (D) 36
-
49. If a and b are both even numbers, which of the following could be an odd integer?
 (A) $a^2 + b^2$ (B) $(a + 1)^2 + (b + 1)^2$
 (C) $(a + 1)(b + 1) - 1$ (D) $(a + 1) / (b + 1)$
50. How many square feet is 100 square meters?
 (A) 328.1 (B) 1076 (C) 32.81 (D) 929

SECTION-II

51. Which of the following are true regarding Jhum cultivation in India?
 I. It is largely practiced in Assam
 II. It is referred to as 'slash and burn' technique
 III. In it, the fertility is exhausted in a few years
 (A) I, II and III (B) II and III
 (C) I and II (D) I and III
52. Rocket engine works on the principle of
 (A) Newton's first law (B) Newton's third law
 (C) Newton's second law (D) None of these
53. Sound travels at the fastest speed in
 (A) Steel (B) Water (C) Air (D) Vacuum
54. A device used for measuring the depth of the sea is called
 (A) manometer (B) fathometer (C) altimeter (D) hydrometer
55. Solar cells are made up of
 (A) germanium (B) helium
 (C) both silicon and germanium (D) silicon
56. NREGA was renamed with the name of
 (A) Indira Gandhi (B) Rajiv Gandhi
 (C) Sonia Gandhi (D) Mahatma Gandhi

57. The number of ribs in the Human Body is
(A) 12 (B) 18 (C) 20 (D) 24
-
58. Gir National Park is situated in, which city?
(A) Bihar (B) Gujarat (C) West Bengal (D) MP
-
59. The plan to transfer of power to the Indians and partition of the country was laid down in the?
(A) Cabinet Mission Plan (B) Simon Commission
(C) The Mountbatten Plan (D) Cripps Mission
60. Where and when was the second Buddhist council held?
(A) Patliputra in 250 B.C. (B) Sri Lanka in 1st century B.C.
(C) Vaishali in 383 B.C. (D) Mandalay in 1871 A.D
61. Census in India is being held regularly after every
(A) 6 years (B) 8 years (C) 10 years (D) 12 years
62. What does the term NSDL stands for?
(A) National Securities Development Limited
(B) National Securities Depository Limited
(C) National Safety Development Limited
(D) Natural Safety Deployment Limited
63. With which of the following lies the basic regulatory authority for mutual funds and stock markets?
(A) Reserve bank of India (B) Government of India
(C) SEBI (D) Stock Exchanges
64. Which of the following programs aims at the promotion of savings among rural women?
(A) Rashtriya Mahila Kosh (B) Mahila Samridhi Yojna
(C) Indira Mahila Yojna (D) Javhar Rozgar Yojna
65. In which of the following fields Vyas Samman is given?
(A) Films (B) Literature (C) Music (D) Dance

66. Who wrote the book Discovery of India?
(A) Vikram Seth (B) Rabindranath Tagore
(C) Mahatama Gandhi (D) Jawaharlal Nehru
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67. Who is the author of the book India 2020?
(A) Dr. A.P.J. Abdul Kalam (B) R.K. Narayan
(C) Sidney Shelton (D) Nibal Singh
68. Who has been elected as the new speaker of the Maharashtra Assembly?
(A) Praful Patel (B) Nana Patole
(C) Eknath Deshmukh (D) Kishan Kathore
69. 13th South Asian Games have recently been inaugurated in which country? China Vietnam India Nepal?
(A) China (B) Sri Lanka (C) Nepal (D) Bangladesh
70. Under whose chairmanship the 13 Finance Commission has submitted its report for the F.Y. 2020-21 to the President of India?
(A) Ashoke Lahiri (B) Ramesh Chand
(C) N. K. Singh (D) Ajai Narayan Jha
71. Who is national security advisor of India?
(A) Krian Bedi (B) Pankaj Saran
(C) Ajit Doval (D) Rajinder Sinha
72. Hima Das an athlete belongs to which state of India
(A) Tripura (B) Assam (C) West Bengal (D) Jharkhand
73. Which state has launched 'Back to Village' programme to increase connectivity with the villages
(A) Haryana (B) Bihar (C) Jammu & Kashmir (D) UP
74. According to Central Government, by which date, the "One Nation-One Ration Card" scheme is to be implemented in the country?
(A) March 31, 2020 (B) June 30, 2020
(C) March 31, 2024 (D) June 30, 2024

75. The amendment of which bill has been protested in Assam?
(A) Triple Talaq Bill (B) Lokpal Bill
(C) Citizens Amendment Bill (D) All of these

SECTION IV

76. Complete the series
1,9,17,33,49,73, ?
(A) 93 (B) 95 (C) 97 (D) 99
77. Complete the series : 7,12,19,?,39
(A) 24 (B) 28 (C) 31 (D) 33
78. Fear : Threat :: Anger : ?
(A) Compulsion (B) Panic (C) Provocation (D) Force
79. CUP : LIP :: BIRD : ?
(A) BUSH (B) GRASS (C) FOREST (D) BEAK
80. Amber : Yellow :: Carmine : ?
(A) Red (B) Green (C) Violet (D) Blue
81. Venerate: Worship :: Extol : ?
(A) Glorify (B) Homage (C) Compliment (D) Recommend
82. APZLT, CQYNR, ERXPP, GSWRN, ?
(A) KVIJUI (B) JUUVK (C) ITVTI (D) KUUVJ
83. prt bdf , hjl , npr
(A) uwy (B) vya (C) vxz (D) axy
84. If $3 \times 6 = 18$, $5 \times 3 = 16$, $8 \times 2 = 20$. Find the value of $4 \times 6 = ?$
(A) 12 (B) 13 (C) 33 (D) 20
85. Insert the arithmetical signs in the following numerical figure.
 $9\ 6\ 3 = 27$
(A) +, x (B) -, + (C) / , + (D) +, /

86. If $1 = 3$, $2 = 5$, $3 = 7$, $4 = 9$, then $7 = ?$
(A) 11 (B) 13 (C) 15 (D) 17
87. Ram, Mahesh and Mohan play badminton. Mahesh, Ramesh and Pramod play tennis, Mahesh, Ramesh and Ram play chess, who plays all the games?
(A) Pramod (B) Mahesh (C) Ram (D) Ramesh
88. A team of four from A, B, C, D, E, F and G is to be selected according to the following conditions:
B and C must be together
D and E must not be together
A and G must be together
F and D must be together
C and G will not be together
C and E must be together
The team will have
(A) ADFG (B) ABCE (C) BCAG (D) None of these

In each of the following questions (89-90) a statement is given followed by two Arguments. Mark the appropriate option.

89. Statement: Should students study in early hours of morning?
Argument. I: Yes, mind is fresh and alert at that time.
Argument. II: No, early risers feel sleepy throughout the day.
(A) Only argument I is strong (B) Only argument II is strong
(C) Both the arguments are strong (D) Neither I nor II is strong
90. **Statement :** Due to Less grant in aid from the Government, the autonomous government institutes should increase the fee
Argument 1 : Educational Institutes should increase their internal income from some other sources to meet the budget deficit.
Argument II : The government institutes have their social obligation to give good education to all including the poor.
(A) Only argument I is strong (B) Only argument II is strong
(C) Both the arguments are strong (D) Neither I nor II is strong

In each of the following questions (91-94) two statements are given followed by an inference. Mark the correct inference

91. (a) My son is not old enough to vote.
(b) My son has handsome personality.
Inference: My son is a boy under 18 years of age.

- (A) The inference is definitely true
- (B) The inference is definitely false
- (C) The inference is probably false or true
- (D) Inference cannot be drawn

92. (a) I know a professor of a university.
(b) He has beard.

Inference: All the professors of the university have beard.

- (A) The inference is definitely true
- (B) The inference is definitely false
- (C) The inference is probably false or true
- (D) Inference cannot be drawn

93. (a) Cats like rats.
(b) Rats like bread.

Inference : Bread is liked by cats

- (A) The inference is definitely true
- (B) The inference is definitely false
- (C) The inference is probably false or true
- (D) Inference cannot be drawn

94. (a) Happy is one who is contended.
(b) Religious people are contended.

Inference: Religious people are happy.

- (A) The inference is definitely true
- (B) The inference is definitely false
- (C) The inference is probably false or true
- (D) Inference cannot be drawn

Directions for the following (95-97) questions:

Read the following passage and answer the three items that follow:

A tennis coach is trying to put together a team of four players for the forthcoming tournament. For this 7 players are available: males A, B and C; and females W, X, Y and Z. All players have equal capability and at least 2 males will be there in the team. For a team of four, all players must be able to play with each other. But, B cannot play with W, C cannot play with Z and W cannot play with Y.

95. If Y is selected and B is rejected, the team will consist of which one of the following groups?
- (A) A, C, W, Y (B) A, C, X and Y
(C) A, C, Y and Z (D) A, W, Y and Z
96. If B is selected and Y is rejected, the team will consist of which one of the following groups?
- (A) A, B, C and W (B) A, B, C and Z
(C) A, B, C and X (D) A, W, Y and Z
97. If all the three males are selected, then how many combinations of four member teams are possible?
- (A) 1 (B) 2 (C) 3 (D) 4
98. A and B are young ones of C. If C is the father of A, but B is not the son of C. How are B and C related ?
- (A) Niece and Uncle (B) Daughter and Father
(C) Niece and Uncle (D) Daughter and Mother
99. Six members of a family ABCDE and F are travelling together. B is the son of C but C is not the mother of B. A and C are married couple. E is the brother of C. D is the daughter of A. F is the brother of B. How many male members are there in the family?
- (A) 4 (B) 3 (C) 2 (D) 1
100. If banana is apple, apple is grapes, grapes is mango, mango is nuts, nuts is guava, which of the following is a yellow fruit?
- (A) Mango (B) Guava (C) Apple (D) Nuts