

L-1, JT (Phy/ME/ECE)

**Indian Institute of Information Technology,
Design and Manufacturing, Kancheepuram**

Question Booklet

Recruitment for the post of Junior Technician

Department/Stream: Physics, ME & ECE

Level-1 Test

Application No.	:	
Name of the Candidate	:	
Date of Test	:	06th December 2025

Instructions to Candidates:

- The test booklet comprises 100 objective multiple-choice questions (MCQs).
- Candidates must record all responses exclusively on the OMR answer sheet supplied.
- **Each correct answer is awarded one mark, while 0.25 marks will be deducted for every incorrect response.**
- Answers must be marked using only **BLUE or BLACK ballpoint pens.**
- Ensure that the chosen option is clearly shaded in the **OMR sheet** as per the instructions provided on it. Incomplete or ambiguous markings may lead to rejection of the response.
- No additional sheets will be issued for rough work. Candidates may utilize the space provided within the question booklet for any rough calculations or notes.
- At the end of the examination, candidates must return both the OMR answer sheet and the question booklet to the invigilator. Failure to do so may result in disqualification.
- The total duration of the examination is **120 minutes.**

Signature of the candidate

For rough work

- 1) Who has been appointed recently as UNICEF celebrity Advocate?
 - a) Priyanka Chopra
 - b) Keerthy Suresh
 - c) Rashmika Mandana
 - d) Nayanthara

- 2) According to the Swachh Survekhasan awards 2025, the dirtiest city in India for cities with a population over 10 lakh
 - a) Ludhiana
 - b) Chennai
 - c) Ranchi
 - d) Madurai

- 3) Rohini Gram Panchayat, Maharashtra was recently awarded by Gol for
 - a) Swach Bharat Award for most cleanest village
 - b) Best Gram Panchayat award for Self-sustainability
 - c) Digital Governance
 - d) Best Conservation of Natural Biodiversity resources.

- 4) IIITD & M Kancheepuram has recently released a book called
 - a) Design modelling in manufacturing 2025
 - b) Perpetual Design and modelling
 - c) Mastering system vulnerability and Security
 - d) Parenting the nation.

- 5) Visvesvaraya Scheme for Electronics & IT is *mainly* operated in IITDM Kancheepuram for
 - a) Undergraduate studies
 - b) Post graduate studies
 - c) Doctoral studies
 - d) Special Certificate programs for skill enhancement.

- 6) Which type of rock is from cooling and solidification of magma?
 - a) Igneous rock
 - b) Sedimentary rock
 - c) Shale stones
 - d) Metamorphic rock.

7) The radiation which has highest frequency among the following is

- a) X rays
- b) UV rays
- c) Alpha rays
- d) Gamma rays.

8) How many colours are there in the Indian flag ?

- a) 2
- b) 3
- c) 4
- d) 5

9) "Jai Jawan, Jai Kisan" word was coined by

- a) Jawaharlal Nehru
- b) Atal Bihari Vajpayee
- c) Narendra Modi
- d) Lal Bahadur Sastri

10) Andes mountains are located in

- a) Asia
- b) Africa
- c) South America
- d) Australia

11) What season does Australia experience in the month of December?

- a) Summer
- b) Autumn
- c) Winter
- d) Spring

12) Tamil sangamam 4.0 will be held at

- a) Chennai
- b) Madurai
- c) Mathura
- d) Kasi

13) Sattriya is a dance from the state of

- a) Manipur
- b) Meghalaya
- c) Assam
- d) Uttarpradesh

- 14) Which actor/actress from Tamil film industry was conferred with the Padma Bhusan award.
- a) Rajnikanth.
 - b) Vijay Joseph
 - c) Ajit Kumar
 - d) Khusboo sundar.
- 15) FIH Junior world cup is being held in 2025 at
- a) Chennai
 - b) Goa
 - c) Bengaluru
 - d) Chandigarh
- 16) Which is the oldest archeological site in Tamilnadu revealing important insights into early civilizations in India
- a) Adichanallur
 - b) Keezhadi
 - c) Kilnamandi Thiruvanamalai
 - d) Chennanur Krishnagiri.
- 17) A petri dish is a laboratory ware used in
- a) Physics experiments
 - b) Chemistry experiments
 - c) Geological experiments
 - d) Biological experiments
- 18) Arogyaswami Paulraj (Padma Bhusan Awardee) is associated with invention of
- a) 5G Technology
 - b) MIMO Technology
 - c) AI Technology
 - d) Distributive computing Technology.
- 19) Grand collar of the national order of the southern cross was awarded to Prime Minister Narendra Modi by which country?
- a) South Africa
 - b) South korea
 - c) Nigeria
 - d) Brazil

20) Which country is called as Gateway to the middle east?

- a) Oman
- b) Saudi Arabia
- c) Turkey
- d) Pakistan

21) If $A : B = 3 : 4$ and $B : C = 8 : 9$, then the ratio of $A : B : C$ is

- a) $3 : 4 : 5$
- b) $1 : 2 : 3$
- c) $7 : 12 : 17$
- d) $6 : 8 : 9$

22) The selling price of an article after giving successive discounts of 10% and 5% on the marked price is Rs.171. what is its market price?

- a) Rs.200
- b) Rs.220
- c) Rs.240
- d) Rs.250

23) A train with a uniform speed crosses a pole in 2 seconds and a bridge of length 250m in 7 seconds. The length of the train is

- a) 150 m
- b) 120 m
- c) 100 m
- d) 80 m

24) 30 workers can complete a job in 36 days. After 30 days, some more workers joined and the job was completed 2 days earlier. How many new workers joined?

- a) 13
- b) 15
- c) 17
- d) 19

25) If an article is sold at a gain of 5% instead of being sold at a loss of 5% one gets Rs.5 more. What is the cost price of the article?

- a) Rs.100
- b) Rs.105
- c) Rs. 50
- d) Rs.110

- 26) A number, when divided by 296, gives 75 as the remainder. If the same number is divided by 37 then the remainder will be
- a) 1
 - b) 2
 - c) 19
 - d) 31
- 27) The sum of all the digits of the numbers from 1 to 100 is
- a) 5050
 - b) 903
 - c) 901
 - d) 900
- 28) There are five bells which start ringing together at intervals of 3, 6, 9, 12 and 15 seconds respectively. In 36 minutes, how many times will the bells ring simultaneously?
- a) 13
 - b) 12
 - c) 6
 - d) 5
- 29) In an election there were only two candidates. One of the candidates secured 40% of votes and is defeated by the other candidates by 298 votes. The total number of votes polled is
- a) 745
 - b) 1460
 - c) 1490
 - d) 1500
- 30) A man driving at $\frac{3}{4}$ th of his original speed reaches his destination 20 minutes later than the usual time. Then the usual time is
- a) 45 minutes
 - b) 60 minutes
 - c) 75 minutes
 - d) 120 minutes
- 31) Walking at 3 km per hour, Ram reaches his school 5 minutes late. If he walks at 4 km per hour he will be 5 minutes early. The distance of Ram's school from his house is
- a) $1\frac{1}{2}$ km
 - b) 2 km

- c) $2\frac{1}{2}$ km
d) 5 km
- 32) If the average of 6 consecutive even number is 25, the difference between the largest and the smallest number is
- a) 8
b) 10
c) 13
d) 14
- 33) The number that is to be added to 10% of 320 to have the sum as 30% of 230 is
- a) 37
b) 32
c) 23
d) 73
- 34) 0.09% of 25% of 1200 is equal to _____
- a) 0.27
b) 2.7
c) 27
d) 270
- 35) A train has to cover a distance of 900 km in 25 hours. What should be its average speed in meters /seconds?
- a) 20
b) 10
c) 18
d) 36
- 36) $1485 \times ? = 594$
- a) $\frac{2}{5}$
b) $\frac{3}{4}$
c) $\frac{3}{5}$
d) None of these.
- 37) $4 + 4.44 + 0.4 + 44.04 + 444 = ?$
- a) 497.24
b) 487.66
c) 496.88
d) 469.88

- 38) The average age of the family of five members is 24. If the present age is of youngest members is 8 years, then what was the average age of family at the time of the birth of the youngest member
- a) 20 years
 - b) 16 years.
 - c) 12 years
 - d) 18 years
- 39) In a test, minimum passing percentage for girls and boys is 35% and 40% respectively. A boy scored 483 marks and failed by 117 marks. What is the minimum passing mark for girls?
- a. 425
 - b. 520
 - c. 500
 - d. None of these
- 40) A container has 30 litres of waters. If 3 litres of water is replaced by 3 litres of spirits and this operation is repeated twice, what will be the quantity of water in the new mixture?
- a) 24 litres
 - b) 23 litres
 - c) 24.3 litres
 - d) 23.3 litres
- 41) Which of the following will be the next letter in the following letter series?
B C E H L ?
- a) Q
 - b) P
 - c) O
 - d) M
- 42) What should come next in the following letter series
AN CQ ET GW ?
- a) JZ
 - b) IZ
 - c) IY
 - d) LZ

- 43) "Horse" is related to "Mare" in the same way as "Tiger" is related to
- a) Tigris
 - b) Tigress
 - c) Panther
 - d) Line
- 44) Wax : Candle :: ? : Paper
- a) Tree
 - b) Bamboo
 - c) Pulp
 - d) Wood
- 45) Four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to that group?
- a) Sweet
 - b) Cake
 - c) Pastry
 - d) Bread
- 46) In a certain code ORIENT is written as '532146' and SOUL is written as '7598'. How is LINE written in that code?
- a) 9241
 - b) 8341
 - c) 8241
 - d) None of these
- 47) In a certain code, JEALOUS is written as BFKKTVF. How is HEARTEN written in that code?
- a) OFUQBFI
 - b) BFIQOFU
 - c) BFIQUFO
 - d) None of these
- 48) D said, "A's father is the only brother of my sister's son." How is A's father related to D ?
- a) Cousin
 - b) Nephew
 - c) Aunt
 - d) Data Inadequate

Read the following information for answering the questions that follows:

On a playing ground A, B, C, D and E are standing as described below facing the North.

- (i) B is 50 metres to the right of D
- (ii) A is 60 metres to the South of B
- (iii) C is 40 metres to the West of D
- (iv) E is 80 metres to the North of A

49) If a boy walks from C, meets D followed by B, A and then E, how many metres has he walked if he has travelled the straight distance all through?

- a) 120
- b) 150
- c) 170
- d) 230

50) What is the minimum distance (in metre approximately) between C and E ?

- a) 53
- b) 78
- c) 92
- d) 120

51) Who is to the South -East of the person who is to the left of D?

- a) A
- b) B
- c) C
- d) E

In each of the following questions three words are alike in some manner. Spot the odd one out.

52)

- a) Green
- b) Red
- c) Colour
- d) Orange

53)

- a) Stable
- b) Hole
- c) Canoe
- d) Sty

54)

- a) Nose
- b) Eyes
- c) Skin
- d) Teeth

55)

- a) Venus
- b) Moon
- c) Pluto
- d) Mars

56)

- a) Happy
- b) Gloomy
- c) Lively
- d) Cheerful

In the following questions select the pair which is different from the other three.

57)

- a) Crayon - Paper
- b) Pencil - Lead
- c) Pen - Ink
- d) Brush - Paint

58)

- a) War - Peace
- b) Real – Nature
- c) Premiere – First
- d) Wrath – Anger

59)

- a) Finger – Thimble
- b) Head – Cap
- c) Waist – Tiara
- d) Foot – Shoe

60)

- a) Day – Night
- b) Clever – Foolish
- c) Clear - Blurred
- d) Arrive - Come

In the following questions, which of the following pair of letters is different from the other three?

61)

- a) FGH – HIJ
- b) PQR – RST
- c) MNO – OPQ
- d) CDE – DEF

62)

- a) JuM - jUm
- b) iLo – llo
- c) PSa – psA
- d) ZeX – zEx

63)

- a) NQT – JMP
- b) CFI – RUX
- c) ADG – FGH
- d) SVY – ORU

64)

- a) DXD – XDX
- b) KUK – UKU
- c) FHF – EHE
- d) RSR – SRS

65)

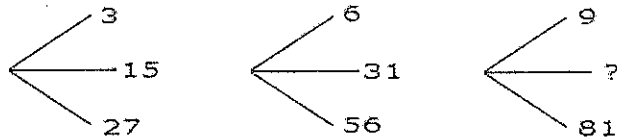
- a) AYT - BZU
- b) FNG-EMF
- c) RWO-OVN
- d) HJD - GIC

66) Pune is bigger than Jhansi, Sitapur is bigger than Chittor. Raigarh as not as big as Jhansi, but is bigger than Sitapur. Chittor is not as big as Sitapur. Which is the smallest?

- a) Jhansi
- b) Pune
- c) Chittor
- d) Sitapur

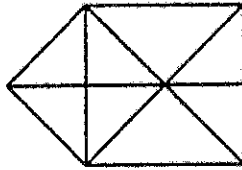
- 67) Ajay works more than Ram. Alok works as much as Raju. Pankaj works less than Alok. Ram works more than Alok. Who works the most of all?
- Ajay
 - Ram
 - Alok
 - Raju
- 68) Jaya ranks 5th in a class of 53. What is her rank from the bottom in the class?
- 49th
 - 48th
 - 47th
 - 50th
- 69) Uma ranked 8th from the top and 37th from bottom in a class. How many students are there in the class?
- 47
 - 46
 - 45
 - None of these
- 70) If "+" means "-", "-" means "x", "x" means "÷" and "÷" means "+", then $15 \times 5 \div 10 + 5 - 3 = ?$
- 9.5
 - 0
 - 2
 - 24
- 71) In the alphabet series which letter should be ninth letter to the left of ninth letter from right if the first half of the alphabet is reversed?
- I
 - D
 - F
 - E
- 72) In the alphabet series, what letter will come in the centre of sixth letter from the right and 13th letter from the left?
- Q
 - R
 - F
 - E

73) Which one will replace the question mark?



- a) 45
- b) 41
- c) 32
- d) 40

74) Find the number of triangles in the given figure



- a) 14
- b) 15
- c) 16
- d) 17

In the following questions each sentence has an underlined word or phrase followed by four alternatives. Choose the one that best keeps the meaning of the original sentence if it is substituted for the underlined word or phrase.

75) If one aids and abets a criminal, he is also considered guilty of the crime.

- a) suspicious
- b) daring
- c) culpable
- d) ruthless

76) To look quickly through a book is an important study skill

- a) skim
- b) summarize
- c) outline
- d) paraphrase

77) The revolutionaries had to muster up enough men to oppose the British army

- a) finance
- b) disguise
- c) convince
- d) gather

78) For your safety and the safety of others, always pay attention to the traffic signals.

- a) overlook
- b) heed
- c) glance at
- d) repair

79) Lifting the shoulders is a gesture that indicates lack of interest

- a) Napping
- b) Yawning
- c) Shrugging
- d) Blinking

In each sentence below there are four words or phrases marked (1), (2), (3), and (4). Identify the words or phrase that has not been correctly used in the sentence. Mark it in the answer-sheet.

80) There have been (a) little (b) change in the patient's condition since(c) he was moved (d) to the intensive care unit.

81) Despite of (a) the pills which (b) are available, many people still (c) have trouble sleeping (d).

82) Please send me (a) information with regard of (b) insurance policies available from (c) your company (d).

83) If (a) you will buy (b) one shirt at the regular price, you would received another one (c) at no extra cost. (d)

84) Neither of the two candidates who (a) had applied (b) for admission to the chemical Engineering Department were (c) eligible for scholarship(d).

Choose the best alternatives to fill in the blanks in the following questions. Mark your answer on the answer sheet.

- 85) Travellers _____ their reservation well in advance if they want to fly during winter vacation.
- a) had better to get
 - b) had to better to get
 - c) had better get
 - d) had better got
- 86) Not until a monkey is several years old _____ to exhibit signs of independence from its mother.
- a) It begins
 - b) does it begin
 - c) beginning
 - d) and begins
- 87) Although Dr. Singh had several assistants during his long investigations of Andaman Islands, the bulk of research was done by _____ alone.
- a) himself
 - b) he
 - c) him
 - d) his
- 88) He is the only boy in the school who _____ a book whenever he gets time.
- a) has read
 - b) has been read
 - c) is reading
 - d) reads
- 89) To answer accurately is more important than _____.
- a) quick finish
 - b) finish quickly
 - c) finishing quickly
 - d) you finish quickly

90) Professional people now-a-days appreciate _____ when it is necessary to cancel an appointment.

- a) your calling them
- b) you to call them
- c) that you would call them
- d) that you are calling them

91) Though the programme was originally scheduled for seven days, due to heavy monsoons, it was _____ to four days.

- a) ended
- b) curtailed
- c) postponed
- d) recommended

92) Janet was _____ in the gathering because of her height.

- a) glamorous
- b) important
- c) conspicuous
- d) remarkable

93) The marked difference between the weapons with the police and those possessed by criminals has heightened the sense of _____ even within the police force.

- a) responsibility
- b) insecurity
- c) duty
- d) instability

94) Our politicians fill their _____ by exploiting the downtrodden.

- a) galleries
- b) coffers
- c) treasures
- d) lockers

From the given alternative choose the word which is nearest in meaning to the underlined word.

95) vindictive

- a) triumphant
- b) strategic
- c) revengeful
- d) demonstrative

96) insipid

- a) witty
- b) flat
- c) wily
- d) lucid

97) reiterate

- a) further
- b) change
- c) publish
- d) repeat

98) feign

- a) pretend
- b) condemn
- c) condone
- d) attend

99) callous

- a) inexperienced
- b) unnamed
- c) unfeeling
- d) unjust

100) nuance

- a) A subtle difference
- b) Powerful feeling
- c) Obvious meaning
- d) Difficult situation
