

Date of Examination:	29-04-2022	Time:	2 Hrs
Name of the Post:	Common Paper for Level 1 Test for Junior Technical Superintendent (CSE/ECE) & Junior Technician (CSE)		

Name of the Candidate:											
Application No:											

Candidate's Signature

Invigilator's Signature

Instructions to the Candidate:

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1. Use of Calculators, Cell Phones and Other Electronic Devices are not permitted inside the examination hall.
2. Candidate should fill the details on both question paper booklet and OMR sheet carefully without any corrections.
3. Candidate should carefully read the instructions given on the question paper booklet and OMR sheet.
4. Candidate should mark correct answer only on OMR sheet.
5. **Question paper consists of 80 questions in total for 100 marks. Each question carries 1¼ marks (1.25 marks).**
6. Wrong answer per each question carries negative of 0.3125 marks.
7. Clarifications on Questions are not permitted.
8. Rough works can be done in the blank space provided at the end of the question paper booklet.
9. No Candidate is allowed to leave the examination hall till the examination is completed.
10. **Candidate should return both question paper booklet and OMR sheet after completion of the examination to the Invigilator.**

1.	First six numbers in a sequence are 1,2,3,6,11,20. The tenth number in the same sequence is A) 125 B) 140 C) 230 D) 245
2.	X is the number of factors of 30 that are odd and Y is the number of factors of 30 that are even. Then which of the following is valid A) $X < Y$ B) $X = Y$ C) $X > Y$ D) $X * Y$ is odd
3.	The batting average for 40 innings of a cricket player is 50. His highest score exceeds his lowest score by 172 runs. If these two scores are discarded, his average score is 48. The highest score of the player is A) 166 runs B) 170 runs C) 172 runs D) 174 runs
4.	Fill in the blank with appropriate verbal clause You must know why _____ on his generosity. A) I depend B) I am depending C) do I depend D) I am depend
5.	Based on the statements 1 and 2, which of the conclusions can be drawn? 1. All the organized persons find time for rest 2. Sunita, in spite of her very busy schedule, finds time for rest Conclusions: I. Sunita is an organized person II. Sunita is an industrious person A) I Only B) II only C) I and II D) Neither I nor II
6.	Position of head of the following houses in Indian Republic are same. Identify the two houses I. Parliament II. Rajya Sabha III. Assembly IV. Council A) I and II B) I and III C) II and III D) II and IV
7.	My brother is 3 years elder to me. My father was 28 years of age when my sister was born while my mother was 26 years of age when I was born. If my sister was 4 years of age when my brother was born, then what was the age of my father and mother respectively when my brother was born? A) 32 years, 29 years B) 30 years, 23 years C) 32 years, 23 years D) 35 years, 29 years
8.	Arrange the following words to form a meaningful sentence P: tea Q: have R: that S: some T: before A) QRPTS B) QSPTR C) TRSPQ D) TRSQP
9.	The difference between a two-digit number and the number obtained by interchanging two digits of the number is 9. The sum of the two digits of the number is 15. The product of the two digits of the two-digit number is A) 36 B) 45 C) 56 D) 54
10.	Compare the adjacent numbers and identify the next two numbers in the series 2, 5, 9, 19, 37, ____, ____ A) 75, 150 B) 74, 150 C) 75, 149 D) 74, 149
11.	The Government of India has launched the 4 th round Regional Connectivity Scheme "UDAN". What does "D" stand for in "UDAN"? A) Drone B) Din C) Desh D) Divas

12.	Hardware that adds two numbers is A) the control unit B) an internal CPU register C) arithmetic Logic Unit D) Browser
13.	Total number of numbers that can be formed using the digits 2, 4, 6 and 8 without repetition of digits is A) 12 B) 16 C) 24 D) 64
14.	Two unbiased dice are tossed. The probability that the total score is larger than the largest possible prime number is A) 1/6 B) 5/12 C) 1/2 D) 7/9
15.	The product of four consecutive integers is one of them. The largest possible integer among the four integer is A) 1 B) 2 C) 3 D) Cannot be determined
16.	How many three-digit numbers begin with a digit that presents a prime number and end with a prime number that represents a prime number? A) 16 B) 80 C) 160 D) 180
17.	If $3x + 7y = 36$ and $7x + 3y = 63$, the average of the values of x and y is A) 99 B) 45.5 C) 9.9 D) None of these
18.	The product of the two octal numbers 437 and 25 is octal is A) 13615 B) 13613 C) 13825 D) 13813
19.	A watch which gains uniformly was 2 minutes slow at 12 noon on a Monday and it was 4 minutes 48 seconds fast on the following Monday at 2 PM. At which day and time during this week, did the watch showed correct time? A) 1 PM on Tuesday B) 2 PM on Wednesday C) 2 PM on Thursday D) 3 PM on Friday
20.	If March 6, 2005 was a Monday, then March 6, 2004 will be A) Wednesday B) Thursday C) Friday D) Saturday
21.	If the symbols $-$, $+$, \div and $*$ mean addition, subtraction, multiplication and division respectively, then which of the following equation will be correct? A) $10 + 5 - 14 \div 10 * 15 = 158$ B) $30 + 5 + 14 - 10 * 15 = 122$ C) $30 - 5 + 14 \div 10 * 15 = 162$ D) $30 * 5 - 4 \div 10 + 15 = 31$
22.	Which of the following is correct meaning of the idiom "To cry wolf" A) To listen eagerly B) To give false alarm C) To turn pale D) To keep off starvation
23.	Two of the words given below in the choices can be used to fill the blank in the following sentence and generate complete sentences that are almost alike in meaning Normally an individual thunderstorm lasts about 45 minutes, but under certain conditions the storm may _____, becoming even more severe, for as long as four hours I. persist II. vacillate III. endure IV. disperse A) I and II B) I and IV C) II and III D) II and IV
24.	A vendor sells 50 percent of apples he had and throws away 20 percent of the remainder. Next day he sells 60 percent of the remainder and throws away the rest. What percent of his apples does the vendor throw? A) 23% B) 25% C) 26% D) 27%

25.	Choose appropriate word to complete the sentence If you _____ to win a lottery, you would be a rich man A) can B) were C) wanted D) had
26.	Out of the alternatives, choose the one that can be substituted for the words "A person living in the same time as another" A) Comrade B) Colleague C) Friend D) Contemporary
27.	If $a^2 + 4b^2 = 4ab$, then $a:b =$ A) 1:2 B) 2:1 C) 1:1 D) Cannot be determined
28.	If two numbers are in the ratio of 5:8 and if 9 is added to each, the ratio become 8:11. Find the sum of the numbers A) 39 B) 49 C) 64 D) 19
29.	Simple interest on a certain sum of money for 3 years at 8% per annum is half of the compound interest on Rs 4000 for 2 years at 10% per annum. The sum placed on simple interest is A) Rs 1550 B) Rs 1650 C) Rs 1750 D) Rs 2000
30.	Ram, Mahesh and Mohan play cricket. Mahesh, Ramesh and Pramod play football. Mahesh, Ramesh and Ram play tennis. Then, who will play all games? A) Pramod B) Mahesh C) Ram D) Ramesh
31.	Let P, Q, R and S are four logical statements such that if P is true, then Q is true; If Q is true then R is true; If S is true, then at least one of Q and R is false. Then it follows that A) If S is false, then both Q and R are true B) IF at least one of the Q and R is true, then S is false C) If either Q or R is true, then S is true D) None of the above
32.	What is the minimum number of integers to be picked up randomly to ensure that either sum or difference of two of the selected numbers is divisible by 10 A) 6 B) 2 C) 7 D) 8
33.	If $a + b : b + c : c + a = 6:7:8$ and $a + b + c = 14$, then the value of 'c' is A) 6 B) 7 C) 8 D) 14
34.	How many permutations of letters in the word APPLE are possible? A) 60 B) 120 C) 240 D) 600
35.	I would like to _____ attention to the last paragraph of my essay _____ to the terms of sale of the goods A) Consider, according B) draw, pertaining C) attract, regarding D) draw, mainly
36.	If A and B can do piece of work in 12 days; B and C in 15 days; C and A in 20 days. A lone can do the work in _____? A) 15 days B) 24 days C) 30 days D) 40 days
37.	Who is the chairperson of Indian Parliament, Lok Sabha? A) Prime Minister B) President C) Vice President D) Speaker
38.	It depends on whether we get _____ down by failures, or use them as stepping-stones A) Wretched B) bogged C) squirted D) eluded

39.	Identify the nearest antonym for the word "Nefarious" A) Lackadaisical B) Eccentric C) exemplary D) Hypocritical
40.	Two words in each of the following are related in some way. Identify the pair that is differently related. A) Pen and nib B) Water and Bucket C) Ink and inkpot D) Oil and Lamp
41.	What comes at "?" APZLT, CQYNR, ERXPP, GSWRN, "?" A) KVIJUU B) ITUVK C) ITVTL D) KUUVJ
42.	Consider a mathematical operation @ and if $3@6 = 18$, $5@3 = 16$, $8@2=20$, then value of $4@6$ is A) 12 B) 13 C) 33 D) 20
	Q 43 to 45 are based on the following: Six friends X, Y, Z, P, Q and R are sitting around the hexagonal table each at the corners and are facing the centre of the table X second to the left of R Y is the neighbour of Z and P Q is second to the left of P
43.	Which of the following pairs are seated between X and P ? A) Z and Y B) Z and R C) Z and Q D) R and Y
44.	The third person to the right of R is A) X B) Y C) Z D) None of these
45.	Which is person is seating diagonally opposite to Y? A) R B) Q C) X D) P
46.	Which state recently launched a virtual Police Station under flagship 5-T initiative? A) Odisha B) Bihar C) Telangana D) Haryana
47.	Which of the following rivers does not flow into the Arabian Sea? A) Tungabhadra B) Sabarmathi C) Mandovi D) Narmada
48.	The pair of numbers that come next in the series is 42, 40, 38, 35, 33, 31, 28, __, __ A) 26, 24 B) 26, 23 C) 25, 23 D) 25, 22
49.	Sunder Pitchai, who is the CEO of Google also became the head of which of the following company? A) Microsoft B) Accenture C) Alphabet D) DeltaAir
50.	Identify the most nearest synonym for the word "Plagiarism" A) Theft of funds B) Theft of ideas C) Belief in God D) Ethical theory
51.	Rama goes to a fair and pays entry fee of Rs 1/- and with the remaining money he has, he can now go for 7 rides and buy 7 eatables. If he saves Rs 14/- for the bus ticket, he can have 7 rides and 5 eatables. Which of the following is a possible amount he was originally hold up with him? A) Rs 60/- B) Rs 100/- C) Rs 110/- D) Rs 120/-

52.	Find the correct conclusion(s): Statements: Some rats are cats. Some cats are dogs. No dog is cow. Conclusions: I. No cow is cat II. No dog is rat III. Some cats are rats A) I only B) I and II only C) III only D) All are true
53.	Find the sum of Arithmetic Progression (AP), whose 8 th and 12 th terms are 39 and 59 is A) 4 B) 5 C) 6 D) 8
54.	The month of January of a certain year had exactly 4 Mondays and 4 Fridays. Which day of the week was January 24 th , that year? A) Sunday B) Wednesday C) Saturday D) Thursday
55.	Which of the following is not a prime number? A) 61 B) 31 C) 71 D) 91
56.	The sum of digits of a two digit number is 15 and their difference is 3. The number is A) 69 B) 96 C) 74 D) Cannot be determined
57.	Given X and Y are positive integers, and X – Y is an even number, which of the following statements is necessarily true? A) Either X – Y or X + Y is divisible by 4 B) $X^2 - Y^2$ is divisible by 6 C) X + Y is divisible by 2 D) $X^2 - Y^2$ is divisible by 8
58.	If you are using MS Word, "Ctrl +right arrow" is used to move the cursor to: A) To one word right B) To the end of the line C) To the end of the document D) One paragraph down
59.	If $1234_{(x)} = 466_{(10)}$, then what is the value of x A) 5 B) 6 C) 7 D) 8
60.	In a three digit number, the middle digit is the sum of its neighbours. Then it must be a multiple of: A) 3 B) 7 C) 11 D) 2
61.	The number of even numbers that can be formed by using all the digits 2, 3, 4, 5, 6 is A) 25 B) 72 C) 120 D) 1875
62.	A person purchased an item at a discount of 30% on the labelled price and sells it of Rs. 8750/-. He gains a profit of 25% on his purchase price. The labelled price of the item is A) 10000 B) 12500 C) Data inadequate D) None of these
63.	Two trains of equal length are running on parallel tracks in the same direction at speed of 46 kmph and 36 kmph respectively. The faster train passes the slower train completely in 36 seconds. The length of each train in meters is A) 50 B) 72 C) 80 D) 82
64.	Two person have attended an interview and chances of getting selected are $\frac{1}{5}$ and $\frac{1}{7}$. The chances of only one of them getting selected is A) $\frac{4}{5}$ B) $\frac{6}{7}$ C) $\frac{24}{35}$ D) $\frac{2}{7}$

65.	The number of four digit numbers that can be formed using the digits 0, 1, 2, 3, 4, 5, 6 without repetition of digits is A) 840 B) $7!/4!$ C) 720 D) $2/7$
66.	The numbers in the following series follow a pattern excepting one number. Identify the odd number 1, 5, 14, 30, 50, 91, 140 A) 5 B) 30 C) 50 D) 91
67.	Octal equivalent of the hexadecimal number 4DF is A) 2333 B) 2337 C) 2773 D) 2373
68.	Which of the following is hexadecimal representation the product of two binary numbers 10111 and 1110? A) 150 B) 14C C) 142 D) 13E
69.	Which of the following is not an Operating System? A) Linux B) OS/2 C) DB2 D) ANDROID
70.	Choose appropriate word/phrase that is of the same meaning as that of the underlined word in the sentence "Corona virus had <u>broken out</u> in some countries" A) eradicate B) run away C) spread D) escape
71.	A man takes 5 hours 45 minutes in walking to a certain place and riding back. If he gains 2 hours in riding both ways. How much time does he take to walk both ways? A) 7 hours B) 7 hours, 30 minutes C) 7 hours, 45 minutes D) 8 hours
72.	Total number of numbers that can be formed using digits 2, 4, 6 and 8 without repetition of digits is A) 12 B) 4^2 C) 4^3 D) 24
73.	Out of the following alternatives, choose the word that opposite in meaning to the word AFFLUENT A) Reluctant B) Poor C) Clear D) Enthusiastic
74.	Out of the following, identify the person who is NOT a Nobel Prize Winner? A) J C Bose B) Rabindranath Tagore C) C V Raman D) Subramanayan Chandrasekhar
75.	Indian woman sports person Shafali Verma represented India in which of the following sports? A) Tennis B) Hockey C) Cricket D) Wrestling
76.	The average value of five observations is 4 and their variance is 5.2. If three of the five observations are 1,2 and 6, the other two observations are A) 2 and 9 B) 2 and 8 C) 4 and 7 D) 4 and 8
77.	Two dice are tossed. The probability that the total score is a prime number is A) $1/6$ B) $5/12$ C) $1/2$ D) $7/9$

78.	<p>What is the average speed of the car for entire distance? In order to answer the question, data from which of the following statements is necessary? I. The car covers whole distance in four equal stretches at 10 kmph, 20 kmph, 30 kmph and 40 kmph respectively. II. the total time taken is 30 minutes.</p> <p>A) I alone B) II alone C) I and II D) Neither I and II</p>
79.	<p>The binary equivalent of decimal number 0.4375 is</p> <p>A) 0.0111 B) 0.0101 C) 0.1100 D) 0.1010</p>
80.	<p>A six faced die is a biased one. It is thrice more likely to show an odd number than to show an even number. It is thrown twice. The probability that the sum of the numbers in the two throws is even is</p> <p>A) $\frac{4}{8}$ B) $\frac{5}{8}$ C) $\frac{6}{8}$ D) $\frac{7}{8}$</p>

SPACE FOR ROUGH WORK

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