HCL Technical Test 2

SECTION A

The following program accepts a pair of 2 numbers from the user of system and totals them. Numbers are accepted in pair repeatedly and totaled, until grand total of all the pair of numbers accepted does not exceed 9.

Step 1 : Assign value 0 to x

Step 2 : Accept 1st number and assign to A Step 3 : Accept 2nd number and assign to B

Step 4 : Add A and B assign to C

Step 5 : Add C to X

Step 6 : If X<10 go to Step 1

Step 7 : Stop.

The error in the above routine is Step 6 should be If X<9 go to Step 1

Step 1 is redundant

Step 4 should be Add A & B and assign to X

Step 6 should read If x<10 go to Step 2

Step 1 should be Assign value 0 to A & B

The following program finds the greatest of the three numbers

A, B and C and prints the result

Step 1 : If A>B assign A to X
Step 2 : If A>C assign A to X
Step 3 : If B>C assign B to X

Step 4 : Print X

The error in the above program: It does not work in case C > A

It does not work in case B > A

It does not work in case C > B

It does not work in case A = B = C

All of the above

Step 9

Study the following program and answer the following questions:

Step 1 : A = 0Step 2 : B = 0Step 3 : If B > 1Step 4 : A = A + 1Step 5 : B = B + 1Step 6 : GOTO 7 Step 7 : END IF 9 Step 8 : B = B - 1

: Stop.

What is the value of B at termination of program?

A) < 1 B) 0 C) 1 D) 2

E) none of the these Object oriented language does not exhibit the following property:					
Structured Programming Private variables Inheritance Linking at runtime					
Polymorphism					
A) I B) II C) III					
D) IV E) V Ingress is					
A 3GL An operating system					
A structured query language Programming language					
e) RDBMS					
Which of the following is not a natural member of the set					
A) UNIX B)OS/2 C)PICK D)LAN E) VMS					
Which of the following is not a DBMS					
ORACLE B) SYBASE C) PICK D) INFORMIX E) UNIFY LOTUS 1-2-3 is a Word processing S/w Case tool DBMS Laser printer None of the above					
each problem consists of a question and two statements numbered (1) and (2), in which certain data are					
given, these are followed by five options, please tick: if statement (1) alone is sufficient, but					
statement					
(2) alone is not sufficient to answer the question asked . if statement (2) alone is sufficient, but					
statement					
(1) alone is not sufficient to answer the question asked. if both statement (1) and (2) together are sufficient to answer the question asked., but neither statement alone is sufficient.if each statement alone is sufficient to answer the questions asked.if statements					
(1) and (2) together are not sufficient to answerthe question asked., and additional data specific to the problem are needed.					
If a rope is cut into three pieces of unequal length, what is the length, what is the length of the shortest of these					
pieces of rope ?The combined length of the longer two pieces of rope is 12 metres The combined					
length of the					
shorter two pieces of rope is 11 metres					
$(A) \qquad (B) \qquad (C) \qquad (D) \qquad (E)$					
A certain company paid bonuses of Rs.125 to each of its executive employees and Rs.75 to each of its					
non executive e employees. If 100 of the employees were non-executive, how many were executives? The					
company has					
a total of 120 employeesThe total amount that the company paid in bonuses to its employees was					
Rs.10,000					
$(A) \qquad (B) \qquad (C) \qquad (D) \qquad (E)$					
What fraction of his salary did Mr. Johnson put into savings last wek? Last week Mr. Johnson put Rs.17 into saving.					
Last week Mr. Johnson put 5% of his salary into savings.					
1 ,					

(A)	(B)	(C)	(D)	(E)	
Each M-type memory that will increase the base memory capacity of a certain computer by 3 megabytes. What is the base memory capacity, in megabytes, of the computer? 2 M-type memory units will increase the					
computer' base memory capacity by 300% The memory capacity of the computer after 2-M type memory units are added to the base memory capacity, is 1.6 times the memory capacity of the computer aftgter 1 M-type unit is					
added to the					
base men (A)	nory capacit (B)	ty. (C)	(D)	(E)	
, ,	. ,		, ,		
What fractional part of the total surface area of cube C is red? Each of 3 faces of C is exactly 1/2 red Each of 3 faces of C is entirely white.					
(A)	(B)	(C)	(D)	(E)	
		SEC	ΓΙΟΝ B		
1. How	many of the	e integers be	etween 25	and 45 are even?	
A) 21 B) 20 C) 11 D) 10 E) 9					
2. If taxi fares were Rs.1.00 for the first 1/5 mile and Rs.0.20 for each 1/5 miles thereafter, the taxi fare for a					
3-mile ride was					
A) Rs.1.56 B) Rs.2.40 C) Rs.3.00 D) Rs.3.80 E) Rs.4.20					
3. A computer routine was developed to generate two numbers (X, Y) the first being a random					
number between					
0 and 100 inclusive, and the second being less than or equal to the square root of the first. Each of the following					
pairs satisfies the routine EXCEPT					
A) (99.10) B) (85.9) C) (50.7)					
D) (1.1) E) (1.0) 4. A warehouse had a square floor with are 10,000 sq.metres. A rectangular addition was built along					
one entire					
side of the warehouse that increased the floor by one-half as much as the original floor. How many					
metres did					
the addition extend beyond the original building? A) 10 B) 20 C) 50 D) 200					
E) 500		C) 30	D) 200		
,		ch was set a	accurately	at 8.30 a.m. and then lost 2 seconds every 5 minutes. What	
time was					
indicated on the watch at 6.30 p.m. of the same day if the watch operated continuously that time? A) 5:56 B) 5:58 C) 6.00 D) 6:23 E) 6:20					
6. A 5 litre jug contains 4 litres of a saltwater solution that is 15 percent salt. If 1.5 litres of the solution					
spilts out of					
jug, and the jug is then filled to capacity with water, approximately what percent of the resulting					
solution in the jug is salt?					
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A).5% B) 9.5% C) 10.5% D) 12% E) 15% A plane travelled K miles in the first 96 minutes of flight time. If it completed the remaining 300 miles of the trip in 1 minute, what was its average speed in miles per hour for the entire trip? SECTION C 1. Given the following statement enum day = $\{ \text{ jan} = 1 \text{ ,feb=4, april, may} \}$ What is the value of may? (a) 4 (b) 5(c) 6 (d) 11 (e) None of the above 2. Find the output for the following C program main $\{int x, j, k;$ j=k=6; x=2;x=j*k;printf("%d", x);3. Find the output for the following C program fn f(x) $\{ if(x \le 0) \}$ return; else f(x-1)+x; 4. Find the output for the following C program i=20,k=0;for(j=1;j9 && Y++!=10 && Y++>10) {printf("%d", Y); else printf("%d", Y); Ans. 13 8. Find the output for the following C program f=(x>y)?x:ya) f points to max of x and y b) f points to min of x and y c)error Ans. (a) 9. What is the sizeof(long int) (a) 4 bytes (b) 2 bytes (c) compiler dependent (d) 8 bytes

10. Which of the function operator cannot be over loaded

 $(a) \ll$

- (b) ?: (c) = (d)

- 11. Find the output for the following C program main()

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{ intx=2,y=6,z=6;
 x=y=z;
printf(%d",x)
```