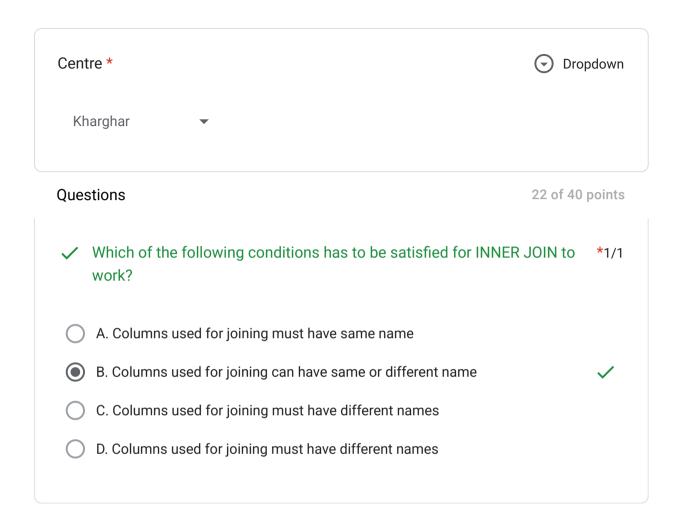
CCEE Mock-II | ADS & DBT Total points 22/40 I hope you all came prepared for this and going to take this test seriously. Consider this as your actual CCEE and don't fall in any of the malpractices because obviously this is for your preparation purpose only. Also, do analyse the concept where you lagged in this paper. All the best. The respondent's email (amolgavit158121@gmail.com) was recorded on submission of this form. 0 of 0 points Name * **Amol Gavit** PRN (12 Digits) * 250240320013



✓ To specify a normal join, using the keyword inner is? *	1/1
A. Mandatory	
B. Optional	✓
C. Independent	
O. Free	
✓ The following query produces same result like Equi Join SELECT * FROM table1 JOIN table2 ON table1.column_name = table2.column_name	*1/1
a. True	✓
O b. False	
C. Tukka Zindabaad	
d. Jai mata di	

Consider the following tables and answer the question 1 to 2. *****1/1 Table: TRAVEL NO NAME **TDATE** KM CODE NOP 101 Janish Kin 2015-11-13 200 101 32 103 VedikaSahai 2016-04-21 100 103 45 105 Tarun Ram 2016-03-23 350 102 42 2016-02-13 102 John Fen 90 102 40 2 107 Ahmed Khan 2015-01-10 104 75 104 Raveena 2016-05-28 80 105 4 1 SELECT COUNT (*), CODE FROM TRAVEL GROUP BY CODE HAVING COUNT(*)>1; What will be output of following query a. 1, 102 **b**. 2, 102 c. 2, 101 d. 2, 105

 2. Select min(TDATE) from travel What will be the output of following query? 	1/1
what will be the output of following query:	
a. 2015-11-13	
b. 2016-04-21	
C. 2016-02-13	
d . 2015-01-10	✓
✓ The data in MongoDB has a flexible schema? *	1/1
a. True	✓
O b. False	
c. Mongo ka to nhin pta but I am flexible	
d. Resume m bhi likha h	

✓ A record in MongoDB is a *	1/1
a. Document	✓
O b. Table	
C. Application	
d. None of the mentioned above	
Consider attributes ID, CITY and NAME. Which one of this can be considered as a super key?	*1/1
a) NAME	
(b) ID	✓
C) CITY	
d) CITY, ID	

X Course(course_id,sec_id,semester) Here the course_id,sec_id and semester are and course is a	*0/1
a) Relations, Attributeb) Attributes, Relationc) Tuple, Relation	×
d) Tuple, AttributesCorrect answerb) Attributes, Relation	
✓ The CREATE TRIGGER statement is used to create the trigger. THE clause specifies the table name on which the trigger is to be attached. The specifies that this is an AFTER INSERT trigger.	_ *1/1
a) for insert, onb) On, for insert	~
c) For, insert d) None of the mentioned	

```
Create procedure dept_count proc(in dept name varchar(20),
                                                                         1/1
out d count integer)
begin
select count(*) into d count
from instructor
where instructor.dept name= dept count proc.dept name
end
Which of the following is used to call the procedure given above?
a)Declare d_count integer;
b)Declare d_count integer;
call dept_count proc('Physics', d_count);
c)Declare d_count integer;
call dept_count proc('Physics');
d)Declare d_count;
call dept_count proc('Physics', d_count);
D
```

Create function dept count(dept_name varchar(20)) * 0/1 begin declare d count integer; select count(*) into d count from instructor where instructor.dept_name= dept_name return d count; end Find the error in the the above statement. a) Return type missing b) Dept_name is mismatched c) Reference relation is not mentioned (a) All of the mentioned X Correct answer a) Return type missing

✓ Point out the wrong statement. *	1/1
 a) Stored procedure can accepts input and output parameters b) Stored procedure can returns multiple values using input parameters c) Using stored procedure, we can Select,Insert,Update,Delete data in database d) None of the mentioned 	✓
Which statement is correct to remove an Index from MySQL Database? *	0/1
 a. DROP INDEX Index_Name; b. ALTER TABLE Table_Name DROP INDEX Index_Name; c. DROP INDEX Index_Name ON Table_Name; d. DROP INDEX Table_Name.Index_Name; Correct answer b. ALTER TABLE Table_Name DROP INDEX Index_Name; 	×

★ Select the correct syntax of SELECT TOP clause? *	0/1
a. SELECT TOP name	
b. SELECT TOP column	×
c. SELECT TOP FROM	
d. SELECT TOP Number	
Correct answer	
d. SELECT TOP Number	
✓ Which of the following clause cannot be optional in SQL SELECT Statement?	*1/1
a. WHERE	
d. GROUP BY	
C. ORDER BY	
d. None of the above	~

✓ Using TIME_FORMAT() function, time can be retrieved in – *	1/1
a. 12-hour format	
b. 24-hour format	
c. Both A. and B.	✓
d. None of the above	
X Savepoint command is used with command. *	0/1
a. Commit	
b. Transaction	×
C. Rollback	
d. None of the above	
Correct answer	
c. Rollback	

/	Which of the following is TRUE about SQL Concatenate?	*1/1
	a. It is also possible to combine more than two strings into one string.	
	b. Two columns of the table may be used to store the strings that are to be combined, or they may just be stored individually without being stored into the table.	
	c. When the concatenated strings are stored in separate columns of a table, they are stored in the column in which they were initially stored.	
	d. All of the above	
C) A	
С) B	
С) C	
•) D	✓

✓ Which of the following is among the 12 Codd's Rules? *	1/1
a. View Updating Rule	
b. Relational Level Operation Rule	
c. Distribution Independence Rule	
d. Relational Data Integrity Rule	
e. Guaranteed Information Updating Rule	
Only d	
O d & e	
a,b,c	✓
All of the above	

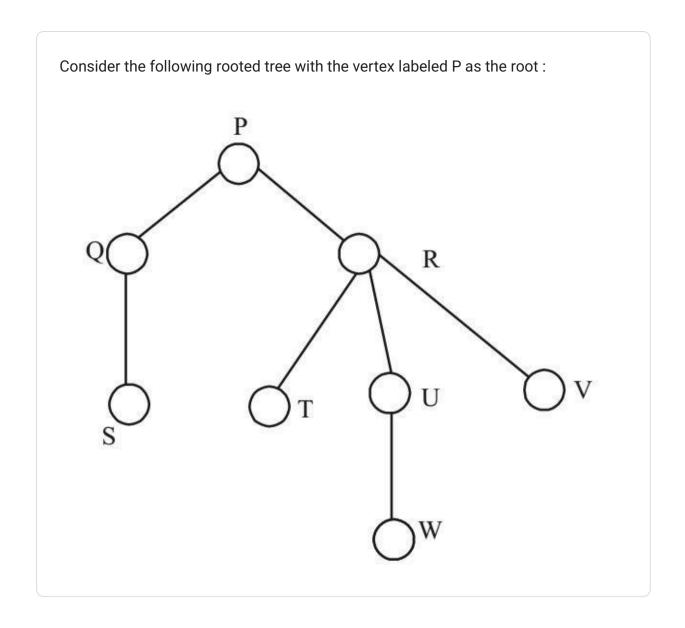
×	A binary search tree T contains n distinct elements. What is the time complexity of picking an element in T that is smaller than the maximum element in T?	*0/1
0	1. Θ(1)	
0	2. Θ(n log n)	
	3. Θ(log n)	×
\bigcirc	4. Θ(n)	
Corr	ect answer	
•	4. Θ(n)	

Convert the pre-fix expression to in-fix: * -*+ABC*-DE+FG	0/1
1. (A-B)*C+(D*E)-(F+G)	
2. (A+B)*C-(D-E)*(F+G)	
3. (A+B-C)*(D-E)*(F+G)	
4. (A+B)*C-(D*E)-(F+G)	×
Correct answer	
2. (A+B)*C-(D-E)*(F+G)	

×	What is the worst case time complexity of inserting n elements into an empty linked list, if the linked list needs to be maintained in sorted order?	* /1
0	1. Θ(n)	
0	2. Θ(n log n)	
	3. Θ(n2)	X
0	4. Θ(1)	
No c	correct answers	

×	The average number of key comparisons required for a successful search of for sequential search on n items is	* 0/1
•	1. n/2	×
C	2. n-1/2	
C	3. n+1/2	
C	4. None	
Cor	rect answer	
	3. n+1/2	

×	The height of a tree is the length of the longest root-to-leaf path in it. The maximum and minimum number of nodes in a binary tree of height 5 are	*0/1
0	1. 63 and 6, respectively	
	2. 64 and 5, respectively	×
0	3. 32 and 6, respectively	
0	4. 31 and 5, respectively	
Corr	ect answer	
•	1. 63 and 6, respectively	



*1/1 ne
~

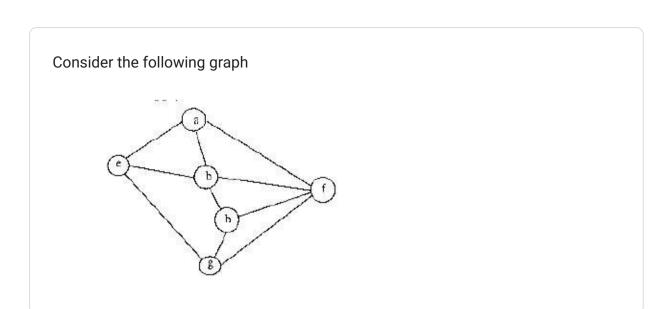
~	Which of the following is /ore correct inorder traversal acquence(a) of	*0/1
	Which of the following is/are correct inorder traversal sequence(s) of binary search tree(s)?	* 0/1
	I. 3, 5, 7, 8, 15, 19, 25	
	II. 5, 8, 9, 12, 10, 15, 25	
	III. 2, 7, 10, 8, 14, 16, 20	
	IV. 4, 6, 7, 9 18, 20, 25	
0	a. I and IV only	
0	b. II and III only	
	c. II and IV only	×
9	o. II alia IV olily	
0	d. II only	
Corr	rect answer	
	a. I and IV only	

×	What are the worst-case complexities of insertion and deletion of a key in a binary search tree?	*0/1
	Note: 0 = theta	
0	a)0(n) for both insertion and deletion	
0	b)0(logn) for both insertion and deletion	
•	c)0(n) for insertion and O(log n) for deletion	×
0	d)0(logn) for insertion and 0(n) for deletion	
Corr	rect answer	
•	a)0(n) for both insertion and deletion	

- 1. The cost of searching an AVL tree is θ (log n) but that of a binary search tree is O(n)
- 2. The cost of searching an AVL tree is θ (log n) but that of a complete binary tree is θ (n log n)
- 3. The cost of searching a binary search tree is 0 (log n) but that of an AVL tree is $\theta(n)$
- 4. The cost of searching an AVL tree is θ (n log n) but that of a binary search tree is O(n)

Correct answer

1. The cost of searching an AVL tree is θ (log n) but that of a binary search tree is O(n)



✓ Among the following sequences:

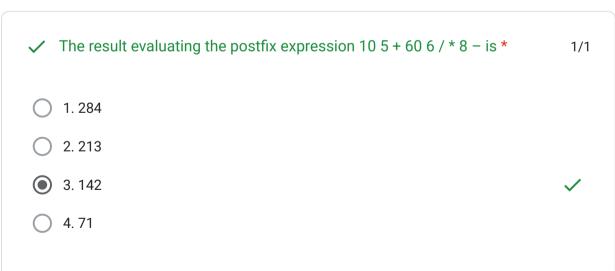
- (I) a b e g h f
- (II) a b f e h g
- (III) a b f h g e
- (IV) afghbe

Which are depth first traversals of the above graph?

- Option 1a)I, II and IV only
- b)I and IV only
- c)II, III and IV only
- (a) d)I, III and IV only

1/1

	In a binary tree, the number of internal nodes of degree 1 is 5, and the number of internal nodes of degree 2 is 10. The number of leaf nodes in the binary tree is	*0/1
0	1. 10	
0	2. 11	
•	3. 12	×
0	4. 15	
Corre	ect answer	
•	2. 11	



✓	Which of the following is essential for converting an infix expression to the postfix from efficiently ?	*1/1
•	1. An operator stack	✓
0	2. An operand stack	
0	3. An operand stack and an operator stack	
0	4. A parse tree	

✓	Consider the following statements:	*1/1
	 i. First-in-first out types of computations are efficiently supported by STACKS. ii. Implementing LISTS on linked lists is more efficient than implementing LISTS on an array for almost all the basic LIST operations. iii. Implementing QUEUES on a circular array is more efficient than implementing QUEUES on a linear array with two indices. iv. Last-in-first-out type of computations are efficiently supported by)
	QUEUES. Which of the following is correct?	
•	1. (ii) and (iii) are true	✓
0	2. (i) and (ii) are true	
0	3. (iii) and (iv) are true	
0	4. (ii) and (iv) are true	

★ Which of the following is a bad example of recursion ? *	0/1
1. Factorial	
2. Fibonacci numbers	
3. Tower of Hanoi	
4. Tree traversal	×
Correct answer	
2. Fibonacci numbers	
The number of rotations required to insert a sequence of element 9,6,5,8,7,10 into an empty AVL tree is ?	*0/1
O 1.0	
O 2. 1	
3. 2	×
O 4. 3	
Correct answer	
4. 3	

X A Circular gueue has been implemented using singly linked list where *****0/1 each node consists of a value and a pointer to next node. We maintain exactly two pointers FRONT and REAR pointing to the front node and rear node of queue. Which of the following statements is/are correct for circular queue so that insertion and deletion operations can be performed in O(1) i.e. constant time. I. Next pointer of front node points to the rear node. II. Next pointer of rear node points to the front node. 1. I only 2. Il only 3. Both I and II X 4. Neither I nor II Correct answer 2. II only

✓ How many rotations are required during the construction of an AVL tree the following elements are to be added in the fiven sequence? 35,50,40,25,30,60,78,20,28	e if * 1/1
 1. 2 left rotations, 2 right rotations 2. 2 left rotations, 3 right rotations 3. 3 left rotations, 2 right rotations 4. 3 left rotations, 1 right rotations 	✓
Consider the tree arcs of a BFS traversal from a source node W in an unweighted, connected, undirected graph. The tree T formed by the tree arcs is a Data Structure for computing.	* 0/1
 1. the shortest path present between every pair of vertices. 2. the shortest path from W to every vertex in the Graph. 3. the shortest paths from W to only those nodes that are leaves of T. 4. the longest path in the Graph 	×
Correct answer 2. the shortest path from W to every vertex in the Graph.	

The worst case running times of Insertion sort, Merge sort and Q sort, respectively, are:	uick *1/1
Note : n2 = n square	
\bigcirc 1. Θ(n log n), Θ(n log n) and Θ(n2)	
2. Θ(n2), Θ(n2) and Θ(n Log n)	
\bigcirc 3. Θ(n2), Θ(n log n) and Θ(n log n)	
4. Θ(n2), Θ(n log n) and Θ(n2)	✓
Feedback	0 of 0 points
Difficulty level of mock *	Dropdown
Moderate •	

From now onwards, I will give my best in everything in my life without any excuses. Because I know, problem is the part and parcel of life. We should always look for solutions.

I PROMISE

How was your experience?

Well the DBT part is easy, but ADS is quit difficult for me. It clearly indicates that i'm lacking in ADS. Need to study the time compaxities.

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