Marking Scheme

COMPUTER SCIENCE (Code : 083)

Maximum Marks: 35

Time: 2 hours

General Instructions

- The question paper is divided into 3 sections A, B and C
- Section A, consists of 7 questions (1-7). Each question carries 2 marks.
- Section B, consists of 3 questions (8-10). Each question carries 3 marks.
- Section C, consists of 3 questions(11-13). Each question carries 4 marks.
- Internal choices have been given for question numbers 7, 8 and 12

		Section -A Each question carries 2 marks		
Q. No	Part No.	Question	Marking Instructions	Marks
1.		 Characteristics of Stacks: It is a LIFO data structure The insertion and deletion happens at one end i.e. from the top of the stack 	1 mark for each point	(2)
2.	(i)	SMTP : Simple Mail Transfer Protocol XML: Extensible Mark Up Language	½ mark for each correct expansion	(1)
	(ii)	Wired- optical fibre Wireless – microwave	½ mark for each correct answer	(1)
3.		 char(n): stores a fixed length string between 1 and 255 characters if the value is of smaller length, adds blank spaces some space is wasted varchar(n): stores a variable length string no blanks are added even if value is of smaller length no wastage of space 	1 mark for each correct difference (minimum 2 differences to be given)	(2)

4.		(a) (b)	One record tuple				1 mark for each correct answer	(2)
5.			Console Table	17-Nov- 2019 20	15000	12	½ mark for each correct output	(2)
6.	(i)	 (i) SHOW TABLES; (ii) Equi-join: The join in which columns from two tables are compared for equality Duplicate columns are shown Natural Join The join in which only one of the identical columns existing in both tables is present No duplication of columns 				1 mark for correct answer	(1)	
	(ii)				1 mark for correct difference (Any one point may be given)	(1)		
7.		(a) Degree: 5 Cardinality: 6			½ mark each for correct degree and cardinality			
		. ,	IEID should be iely identifies			-	½ mark for correct field and ½ mark for justification	(2)

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OR		
(a) MOVIEID and TITLE	½ mark for each correct field name	
(b) MOVIEID	1 mark for correct answer	
Each question carries 3 marks		
<pre># Question No 8 (first option) R={"OM":76, "JAI":45, "BOB":89, "ALI":65, "ANU":90, "TOM":82} def PUSH(S,N): S.append(N) def POP(S): if S!=[]: return S.pop() else: return None ST=[] for k in R: if R[k]>=75: PUSH(ST,k) while True: if ST!=[]: print(POP(ST),end=" ") else: break</pre>	1 mark for correct PUSH operation 1 mark for correct POP operation 1 mark for correct function calls and displaying the output	(3)
OR		
# Question No 8 (second option)	1 mark for correct PUSH	
N=[12, 13, 34, 56, 21, 79, 98, 22, 35, 38] def PUSH(S,N):	operation	
	<pre>(a) MOVIEID and TITLE (b) MOVIEID</pre>	<pre>(a) MOVIEID and TITLE % mark for each correct field name (b) MOVIEID 1 mark for correct answer sECTION - B Each question carries 3 marks # Question No 8 (first option) R=("OM":76, "JAI":45, "BOB":89, "ALI":65, "ANU":90, "TOM":82) def PUSH(S,N): s.append(N) def POP(S): if S!=[]: return S.pop() else: return None ST=[] for k in R: if R[k]>=75: PUSH(ST,k) while True: if ST!=[]: print(POP(ST),end=" ") else: break</pre>

		Correct (N)	1	1
		S.append(N) def POP(S):	1 mark for	
			correct POP	
		if S!=[]:	operation	
		return S.pop() else:		
			1 mark for	
		return None	correct	
		ST=[] for k in N:	function calls	
		$if k^2 = 0$:	and	
		$\frac{11 \ k_{5} 2 = -0}{PUSH(ST,k)}$	displaying	
		while True:	the output	
		if ST!=[]:	the output	
		<pre>print(POP(ST),end=" ") else:</pre>		
		break		
		DICAN		
			Note: Marks	
			to be	
			awarded for	
			any other	
			correct logic	
			given by the	
			student	
9.	(i)	ALTER TABLE Item	1 mark for	
		ADD (Discount INT);	correct	(1)
			command	
	(ii)	DDL: DROP TABLE, ALTER TABLE	½ mark for	(2)
	. ,	DML: INSERT INTO, UPDATESET	each correct	. ,
			command	
			identified	
10.		CREATE DATABASE MYEARTH;	1 mark for	
10.		· · · · · · · · · · · · · · · · · · ·	correctly	
		CREATE TABLE CITY	creating	
		(database.	
		CITYCODE CHAR(5) PRIMARY KEY,	ualaudse.	(2)
		CITYNAME CHAR(30),	2	(3)
		SIZE INT,	2 marks for	
		AVGTEMP INT,	correctly	
		POPULATIONRATE INT,	creating the	
		POPULATION INT,	table.	
);		
		Section C		
L		Each question carries 4 marks		
11.		(a) SELECT AVG(SALARY)		

		EDON ENDLOYEE		[]
		FROM EMPLOYEE GROUP BY DEPTID;		
		GIVOF DI DEFIID,		
		(b) SELECT NAME, DEPTNAME	1 mark for	
		FROM EMPLOYEE, DEPARTMENT	each correct	
		WHERE	query	
		EMPLOYEE.DEPTID=		(4)
		DEPARTMENT.DEPTID		
		AND SALARY>50000;		
		(c) SELECT NAME FROM EMPLOYEE		
		WHERE SALARY IS NULL		
		ORDER BY NAME;		
		(d) SELECT DISTINCT DEPTID		
		FROM EMPLOYEE ;		
12.	(i)	Advantages		
		Ease of service		
		Centralized control		
		Easy to diagnose faults		
		 One device per connection 	½ mark for	
			each correct	
		Disadvantages	advantage /	(2)
		 long cable length 	disadvantage	
		difficult to expand		
		 central node dependency 		
		OR		
		www: a set of protocols that allow you to access any		
		document on the internet through the naming	1 mark for	
		systems based on URLs	each correct	
		Web hosting: Web hosting is a service that	definition	
		allows organizations and individuals to post a		
		website or web page onto the server, which can be		
	(::)	viewed by everyone on the Internet.	1 marts for	
	(ii)	Packet switching:	1 mark for	
		 uses store and forward concept to send 	each correct	
		messages	difference	
		 no physical path is actually establishes 		
		message is divided into smaller parts, known	(minimum	
		as packets and then sent forward	two points	(2)
		 tight upper limit on block size 	should be	
		Each data unit knows only the final	given)	
		receiver's address		
	l			

