The areas of Computer Science includes the following subjects

 Artificial Intelligence Database Theory of Computer Science and Automata Computer Architecture Operating System Data Structure Algorithm analysis and Design Software Engineering Concepts of Programming Languages. Mathematics and Statistics (According to BSCS (DCS-UoK) courses) 				
S	AMI	PLE TEST PAPER		
Q	1.	Planning and constr	aint satisfaction are alike in tha	at they both
		(C) can be used for	ent than A* search e of domain-independent heuris game playing as well as proble rithmic fit for solving crosswor	m solving
Q	2.	The process of read is called(A) data modeling (D)schema modeling	(B) data engineering	and producing a data model from that schema (C) reverse engineering
Q.3.		Which one is a Preemptive Process scheduling policy? a. FCFS b. Round Robin c. Shortest Process Next d. Shortest Remaining Time		
Q	4.	Windows NT can run UNIX programs by using the subsystem.		
		(A) NTVDM (D) X-Subsystem	(B) Virtual DOS Mechanism	n (C) POSIX
Q	5.	A useful technique for evaluating the overall complexity of a proposed architecture is to look at the component		
		(A) cohesion (D) both b and c	(B) flow dependencies	(C) sharing dependencies

- A tree in which each node ha at most two children is called a binary tree. If each node in a Q.6. binary tree is a leaf or has exactly two children, then the tree is called
 - (A) Stepped binary tree
- (B) Kaplan Meir's Steadily Tree
- (C)Strictly binary tree
- (D) Monotonic Binary tree
- In a nondeterministic finite automata with λ transitions, the transition function δ is defined as Q.7.

 - $(A) \ \delta: Q \ x \left(\Sigma \cup \left(\lambda \right) \right) \to 2^Q \qquad (B) \ \delta: Q \ x \left(\Sigma \cup \left\{ \lambda \right\} \right) \to Q \qquad (C) \ \delta: Q \ x \ \Sigma \ \to Q$

- (D) $\delta: Q \times (\Sigma \cup \{\lambda\}) \to 2^Q$
- If three coins are tossed simultaneously, then the probability of having atleast two heads is:

 - (A) $\frac{1}{3}$ (B). $\frac{1}{2}$ (C). $\frac{1}{4}$

- (D). $\frac{1}{8}$
- Q.9. If $A = \begin{bmatrix} 2 & 1-i \\ 1+i & 2 \end{bmatrix}$, then the Harmitian matrix of A is
- (A) $\begin{bmatrix} 2 & 1-i \\ 1+i & 2 \end{bmatrix}$ (B) $\begin{bmatrix} -2 & 1-i \\ 1+i & -2 \end{bmatrix}$ (C) $\begin{bmatrix} 2 & 1-i \\ 1-i & 2 \end{bmatrix}$
- (D) $\begin{bmatrix} -2 & -1+i \\ 1-i & -2 \end{bmatrix}$