SARDAR PATEL UNIVERSITY

M.C.A.(Fifth Semester) Examination

PS05CMCA02 Distributed Systems, Parallel Computing and Simulation

	9th April, 2019, Thesday
Time:	10.00 A.M. to 1:00 P.M. Total Marks: 70
1.	Select most appropriate option for each of the following questions:
(i)	Which system runs on a collection of interconnected machines that do not have shared memory, yet looks to its users like a single computer?
	(A) computer network (B) parallel computer (C) distributed system (D) None of these.
(ii)	Which of the following systems requires N ² crosspoint switches if there are N CPUs and N memory modules? (A) Crossbar switch (B) Omega switching network (C) NUMA machines (D) None of these.
(iii)	Which algorithm for processor allocation is concerned with giving each workstation owner a fair share of the computing power?
	(A) Hierarchical Algorithm (B) Graph-Theoretic Deterministic Algorithm(C) Up-Down Algorithm (D) None of these.
(iv)	Which of the following systems has a single run queue? (A) Network Operating System (B) Distributed Operating System (C) Multiprocessor Operating System (D) None of these.
(v)	is considered as a numerical computation technique used in conjunction with dynamic mathematical models. (A) System (B) System Simulation (C) Dynamic computation (D) None of these
(vi)	System analysis, system design and system postulation are the example of
	(A) Types of system (B) Types of system study (C) Types of entities (D) Types of activities
(vii)	Which of the following models can only show the values that system attributes take when the system is in balance? (A) Analytical model (B) Static model (C) Numerical model (D) Dynamic model
(viii)	Consider the following statements about a model: S1: Model is the body of information about a system gathered for the purpose of studying the system S2: There is no unique model for a system Which of the following is true?



(B) Only S2 is true

(D) Both S1 and S2 are false

(A) Only S1 is true

(C) Both S1 and S2 are true

