National University of Computer and Emerging Sciences, Lahore Campus

Course:	Intro. To Info. and Comm. Tech.		**Course Code:**	
Program:	BS(Computer Science)		**Semester:**	**FALL 2019**
Duration:	3 hrs		**Total Marks:**	
Paper Date:	20-Dec-2019		**Weight**	
Section:	All		**Page(s):**	
Exam:	Final		**Roll No:**	

1. Attempt all questions in the space provided in this sheet. You can use **rough sheets** but don't need to attach it here as it will not be marked.
2. Questions during exam are not allowed. Take reasonable assumptions where needed

Question 1: Mark the correct answer(s) for each of the following questions / statements. Please note that **multiple answers might be correct**.

1) What does ASCII stand for?
   a) American Standard Code for Information Interchange
   b) American Scientific Code for Information Interchange
   c) American Scientific Code for Interchanging Information
   d) American Standard Code for Interchanging Information

2) The register that keeps track of the instructions in the program stored in memory is:
   a) Control register
   b) Program Counter
   c) Status register
   d) Direct register

3) The currently executing process gives up the CPU voluntarily
   a) In preemptive scheduling
   b) In non- preemptive scheduling
   c) All of the above
   d) None of the above

4) What is the ready state of a process?
   a) when process is scheduled to run after some execution
   b) when process is unable to run until some task has been completed
   c) when process is using the CPU
   d) none of the mentioned

5) Which one of the following errors will be handle by the operating system?
   a) Power failure
   b) Lack of paper in printer
   c) Connection failure in the network
   d) all of the above

6) Which of the following are basic operations provided by a DBMS for managing records?
   a) Create a File and Folder
   b) Create a Table
   c) Insert Records in a Table
   d) Search Records from a Table
   e) Delete a record

7) Sending packets to all users in system is called
   a) Broadcasting
   b) Multi-casting
   c) Uni-casting
   d) None of the above

8) Computers in a RING topology
   a) are connected to a single set of wires terminated at both ends
   b) are connected to central switch
   c) are connected using a wireless connection
   d) None of the above

9) Instruction Buffer Register store _____
   a) Instruction that is not to be executed immediately
   b) Instruction that is fetched currently
   c) Instruction that is not important and irrelevant
   d) All of the above

10) Epidemiology is the _____
   a) Study and analysis of the skin cancer and possible treatment
   b) Study of the viral diseases such as dengue and flue etc. and its possible controlling measures
   c) Study of the incidence, distribution and controls of any diseases
   d) All of the above

11) Optimization problem consists of _____
   a) Maximizing or minimizing a real function based on some criteria
   b) Only maximizing a set of real function based on some inputs
   c) Searching for a best solution only
   d) None of the above

12) Database Management System (DBMS) is _____
   a) System Software
   b) Application Software
   c) A simple web application
   d) A structured set of data held in a computer

13) Cardinality of a table in database is known as _____
   a) Total number of tuples
   b) Total number of attributes

c) Primary key of a relation
d) None of the above

14) _____ join two or more different networks together
   a) Bridge
   b) Gateway
   c) Hub
   d) Switch

15) Primary key in a relation is _____
   a) Minimal set of attributes that specify a record uniquely
   b) Any set of attributes that specify a record uniquely
   c) Single attribute that specify a record uniquely
   d) None of the above