SESSION ENDING EXAMINATION, 2018-19

CLASS – XI

COMPUTER SCIENCE

TIME – 3 HOURS]   **[MAX. MARKS - 70**

General Instructions:

(i) All questions are compulsory.

(ii) Programming Language: Python

1. (a) What is cloud computing? What are the two type of cloud computing?   2

   (b) State and prove DeMorgan's Theorem.   2

   (c) What is the difference compiler and interpreter?   2

   (d) Convert $(3674)_8$ to binary and $(B2F)_{16}$ to octal number.   2

   (e) What is utility software? Give two example of it.   2

2. (a) What is sorting? Write a program to sort a list by using insertion sort.   4

   (b) Write a python program to find factorial of a number.   3

   (c) Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code.   2

   Val= int(rawinput("Value"))

   Adder= 0

   for C in range(1,Val,3)

       Adder += C

       if C%2 = 0:

          Print C*10

       Else:

          Print C*

       print Adder

   (d) Write a program to print a pattern like: 2

4321

432

43

4

(e) Write a program to input a number and test if it is a prime number or not. 3

(f) Write program in python to find reverse of a number. 3

(g) Write a program to count and display the number of digits and the number of alphabet present in a string. 3

3. (a) What is the difference between Local and Global variable? Give suitable code as example. 2

(b) What is Token? Define any two type of token with example. 2

(c) What is dictionary? Write a command to create a dictionary and delete an element from dictionary. 2

(d) What will be the output of following code? 2
tup1 = ("comp sc", "info practices", 2017, 2018)

tup2 = (5, 11, 22, 44, 9, 66)

print("tup1[0]:", tup1[0])

print("tup2[1:5]:", tup2[1:5])

(e) Write the output of following: 2
list = ['I','N','D','I','A']

print(list[0:3])

print(list[3:]

print(list[:])

print(list[1:-2])

4. (a) What is the difference between syntax error and semantics error? 2

(b) What is operator? 1

(c) Define flowchart. 1

(d) What is debugging? 1

5. (a) What is the purpose of ALTER TABLE command? How is it different from UPDATE command?   2

(b) What is primary key? How is it different from candidate key? Explain with the help of suitable example.   2

(c) Explain the purpose of DDL and DML statement. Give two examples of each.   2

(d) Define NoSQL database. Write two advantages and two disadvantages of MongoDB.   3

6. (a) Write a MySQL command to create the table STOCK including its

Constraints.   3

Table: STOCK

Field	Type	Size	Constraint
Book_Id	Varchar	(6)	Primary Key
Book_Name	Varchar	(25)	
Price	Integer		
Type	Varchar	(15)	
Quantity	Integer		Not Null

(b) Consider the table Flight given below, write command in SQL for (i) to (ii) and output for (iii) to (iv):   3

Table: Flight

Flight_No	Origin	Destination	Seats	FlightDate	Rate
1005	Varanasi	Nepal	275	12-Dec-07	3000
2785	Delhi	Kerala	290	17-Jan-08	5500
6587	Mumbai	Varanasi	435	19-Feb-08	5000
1265	Varanasi	Nepal	200	02-Jan-08	5400
4457	Delhi	Lucknow	150	22-Feb-08	4500
6856	Varanasi	Mumbai	180	03-Mar-08	6000

(i) To display Flight flying between Varanasi and Nepal.
(ii) To display the different Origin of Flights.

(iii) SELECT Flight_No, Destination FROM Flight WHERE Destination LIKE '_u%';
(iv) SELECT Origin, Destination FROM Flight WHERE seats > 400;

7. (a) What is cyber bullying?   1

(b) What is eavesdropping?   1

(c) Define digital footprint.   1

(d) What is use of Firewall? What are the method to implement firewall.   2

(e) What measures should one take while using social networking sites?   2

(f) What is threat to computer security? Define the different type of threat to
   computer.   3