UNIVERSITY OF THE PUNJAB

Third Semester – 2019

Examination: B.S. 4 Years Program

Roll No. in Fig. ....

Roll No. in Words. ....

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PAPER: Computer Science-I

Course Code: COMP-211/IT-21335   Part–I (Compulsory)

MAX. TIME: 15 Min.

MAX. MARKS: 10

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Signature of Supdt.:

Attempt this Paper on this Question Sheet only.
Please encircle the correct option. Division of marks is given in front of each question.
This Paper will be collected back after expiry of time limit mentioned above.

Q.1.   Encircle the right answer, cutting and overwriting is not allowed.   (1x10=10)

i.   Which one of the following is not used for sending an online message?
   (a) facebook (b) skype (c) gmail (d) google

ii. Decimal number 74 has its equivalent binary that is equal to:
   (a) 111111   (b) 1010101   (c) 1000101   (d) none

iii. For A = pi r*r; which of the following is true in C++:
   (a) Your variable: A   (b) Your variables: A, r (c) Your variables: A, r, pi (d) your variables: true

iv. Which of the following is true for a variable name to calculate sum of two numbers
   (a) sum (b) sum(a, b) (c) sum = a + b (d) both b and c

v.   if a = 4; and b= 5; then which of the following is true for a++; and ++b ;
   (a) a is 4, b is 5 (b) a is 5, b is 5 (c) a is 4, b is 6 (d) a is 5, b is 6

vi. The file extension of a presentation program is:
   (a) .ppt (b) .txt (c) .pdf (d) .doc

vii. In case of while loop, it is:
   (a) fixed iterations loop (b) condition control loop (c) easy loop (d) incremental

viii.   if k=9, then k++ will give:
   a) 9 (b) 10 (c) 11 (d) 12

ix. you can run C++ in :
   (a) mobile (b) computer (c) laptop (d) both b and c

x.   for int a = 2.9; cout<<a; will give you:
   (a) 2 (b) 2.9 (c) 3.0 (d) All

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PAPER: Computer Science-I

Course Code: COMP-211/IT-21335   Part – II

MAX. TIME: 2 Hrs. 45 Min.
MAX. MARKS: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2.	Write short answers of the following Questions:	20= 4x5
1	What is the difference between input device and tactile input devices? Write an algorithm to calculate y such that (e.g., $y = 4x^2$)	
2	Give decimal equivalent of binary number: 11000111.	
3	Differentiate between int and float in C++computer and write examples for each.	
4	Write program to print out product of first five integers.	
5	Comment on the following in C++: selection and repetition (loop).	
Q.3.	How the steps input, process and output are graphically shown in a flow chart? Differentiate between an algorithm and a flow chart? Write an algorithm to calculate and print c such that $c = (a + b)(a-b)$. Write C++ program to print a number, its square and cube such that the numbers are from 1 to 500. How you can print only odd numbers in the above series?	10
Q.4.	Write program to read from the user a value of t and prints out y1, y2 and y3 in C++ such that:y1 = sin(2t), y2=cos(4t) and y3=y1+y2 Write C++ program to print the table of number 5.	10
Q.5.	Write program to read from the user a value of a resistance R and current I and prints out values of voltage V and power P such that V = IR and P=VI. Comment on the following: float, main() and pow().	10