INDIAN MARITIME UNIVERSITY
Time Bound Assignment September/October 2020
B Sc (NS) Arrear Examinations
Computer Science
UG21T4104

Date: 29/09/2020 Maximum Marks: 70

Time: 3 Hrs Pass Marks: 35

Note: Question No. 1 is compulsory.
Answer any 6 questions from remaining 8 questions (each of 10 marks).
Scientific Calculator is permitted if required.

Q1. Short Questions: **(2 x 5 =10 marks)**

(a) Define comment in MS Excel. How is it useful?
(b) Define Gray code.
(c) What is digital signature? Where is it used?
(d) Define operator precedence. How is it relevant in programming?
(e) What is a pointer? Give an example.

Q2. Explain the following terms in MS Word. **(10 marks)**

(a) paragraph formatting
(b) footer
(c) page layout
(d) mail merge

Q3. (a) Explain the insert function option in MS Excel. Give any 2 functions as example. **(5 marks)**

(b) What is conditional formatting? How is it useful? **(5 marks)**

Q4. (a) What is a slide master in MS Powerpoint? What is its purpose? **(5 marks)**

(b) What is a form in MS Access? Why is it used? How is it created? **(5 marks)**

Q5. (a) Convert the following: **(4 marks)**

(i) $(1010101.101)_2$ = ( )$_{BCD}$
(ii) $(111001011.0001100111)_2$ = ( )$_{16}$
(iii) $(760.432)_8$ = ( )$_{16}$
(iv) $(691.3)_{10}$ = ( )$_{xs3}$

(b) Divide: $(1101001)_2 \div (101)_2$ **(2 marks)**

(c) Multiply: $(1010)_2 \times (101)_2$ **(2 marks)**

(d) Subtract using 2's compliment: $(10001)_2 - (11000)_2$ **(2 marks)**

Q6. Differentiate between the two:

(a) real and virtual memory **(5 marks)**

(b) compiler and interpreter **(5 marks)**

Q.7. (a) What is a switch? Write its syntax. **(4 marks)**

(b) Using switch write a program to print the day name corresponding to the number entered. eg. 1 – Sunday, 2 – Monday, 3- Tuesday..7- Saturday **(6 marks)**

Q8. (a) What is an exit controlled loop? Give an example with its syntax. **(5 marks)**

(b) What is a structure? How do you initialize a structure? Write a program as example. **(5 marks)**

Q.9. Explain in detail the encryption using Public Key Algorithm. **(10 marks)**
