

BCA 1st Semester (Honours) Examination, 2018
Subject : Computer Fundamental and PC Software
Paper : BCA-101

Time: 4 Hours

Full Marks: 80

*The figures in the margin indicate full marks.
 Candidates are required to give their answers in their own words
 as far as practicable.*

Answer Question No. 1 and any four from the rest.

1. Answer any eight questions:

2×8=16

- (a) Convert $(9AE \cdot BC)_{16}$ to binary.
- (b) Write the truth table of EX-OR gate.
- (c) Prove that $x + \bar{x} = 1$.
- (d) What is min term?
- (e) Convert $(732 \cdot 16)_8$ to binary.
- (f) What is web browser?
- (g) What is the name of last column of Excel worksheet?
- (h) Write the disadvantage of K-map.
- (i) What is www?
- (j) What is computer virus?
- (k) What is internet?
- (l) Write names of charts in MS-Excel.

2. (a) Compare between SOP and POS form.

(b) Convert to POS form: $f = \sum 1, 3, 5, 7, 9, 12$.(c) Convert to SOP form: $f(a, b, c, d) = \pi 1, 2, 3, 4, 5, 11$ (d) Find the complement of $F = xy\bar{z} + (\bar{x}\bar{y}z + x\bar{y}z)$ 4+4+4+4=163. (a) Simplify following using K-map: $f = \sum 0, 1, 3, 5, 7, 9, 11$ (b) Implement following using basic gates: $AB + B\bar{C} + \bar{A}C$.

(c) Implement XOR gate using NOR gates only. 8+4+4=16

4. (a) Write the use of following function in Excel with example MAX(), AVERAGE(), IF(), ROUND().

(b) What is pivot table? Write the steps to create a pie chart in MS-Excel. 8+8=16



5. (a) Write the steps for mail merge.
(b) How do you insert mathematical equation in MS-Word? Explain.
(c) What is drop cap?
(d) Differentiate between line spacing and paragraph spacing. $3+4+2+2=16$
6. (a) How do you insert delay in MS-PowerPoint presentation?
(b) How do you create hyperlink in MS-PowerPoint?
(c) How do you insert animation? Explain. $6+6+4=16$
7. Write short notes (*any four*): $4 \times 4 = 16$
- (a) Universal gates
 - (b) Rules of Boolean algebra
 - (c) Desktop publishing
 - (d) Moving and copying functions in MS-Excel
 - (e) Web features
 - (f) Tables in MS-Word