CS-612

BACHELOR OF COMPUTER APPLICATIONS (BCA) (Pre-Revised)

Term-End Examination

ΟΟΞ7ち   **June, 2018**

CS-612 : PC SOFTWARE APPLICATION SKILLS

Time : 2 hours   *Maximum Marks : 60*

*Note : Question number 1 is **compulsory**. Attempt any **three** questions from the rest.*

1. (a)   Prove that for all $n >= 4$, $2^n > n^2$.   5

    (b)   Explain how a Decanting problem is solved. Provide solution for the following problem :

          You are provided a $12\,l$ vessel filled with water and two vessels of $9\,l$ and $5\,l$ capacity. How can you divide $12\,l$ water into two equal portions ?   8

    (c)   What is Alignment ? Explain the four alignment options that can be used for document alignment.   7

(d) Explain the working of the following in brief : $4 \times 2\frac{1}{2} = 10$

   (i) E-mail

   (ii) Goal-Seek

   (iii) Solver

   (iv) Telnet

2. (a) What do you understand by the term Internet Protocol ? Explain HTTP protocol. What is it used for ? 5

   (b) What is a Macro in MS-Excel ? Explain how to record and run a Macro. 5

3. Explain the use of the following functions by providing their syntax, functionality and an example for each : $5 \times 2 = 10$

   (a) SUM

   (b) ABS

   (c) FACT

   (d) MOD

   (e) TRIM

4. (a) If you have twelve coins, one of which is different from the rest (heavier), how will you pick it out in three weighings ? Show the steps using Decision Tree. 5

   (b) What is "filtering a database" ? Explain two ways to filter a database. 5

5. (a) What is FTP ? Explain the procedure of transferring files using FTP, with a diagram. 5

(b) "Every graph is not an Euler's graph." Comment on the statement. Using a diagram, illustrate the different parameters which decide whether a graph can have an Eulerian walk or not. 5

———————