02827

BACHELOR IN COMPUTER APPLICATIONS

Term-End Examination

December, 2010

CS-612 : PC SOFTWARE 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 any prime $P \geq 5$, $P^2 + 2$ is   5
         composite.

    (b) What are the different Internet connectivity   6
         mechanisms ? Compare and contrast
         between them.

    (c) What is the purpose of macros in Excel ?   5
         How can macros are recorded and run ?
         Explain using an example.

    (d) A user want to send a 10MB document file   5
         as an Email attachment to her friend named
         "RAM". User wants that a copy of this mail
         must be send to "MALA", but without
         informing and knowledge of "RAM". Write
         a step by step procedure to perform the
         above task of the user.

(e) Assume X and Y are integers, such that   **4**

$$\left(X^2+1\right)=2Y.$$ Now, Prove that Y is the sum

of squares of two integers.

(f) What is meant by protocol ? Explain the   **5**
importance of HTTP in Internet and its use.

2. (a) How do we use FTP ? Also, write *any three*   **5**
FTP commands.

(b) What is firewall in networking ? Explain ,   **5**
how does it protect network from hackers
and viruses ?

3. (a) Write the difference between absolute,   **6**
relative and mixed cell references using an
example for each.

(b) Write the parameters of the following MS   **4**
Excel functions. Also, give an example for
each.
(i) CEILING.
(ii) FLOOR.

4. (a) What is the remainder left after dividing   **5**
$1! + 2! + 3!$ _ _ _ _ _ _ _ _ $+ 100!$ by 7 ?

(b) What is an importance of Pivot table in   **5**
Excel ? Explain the different operations that
can be performed on Pivot tables.

5. Write short notes on the following : **10**

    (i)   TELNET.

    (ii)   ISP.

    (iii) Decanting Problems.

    (iv) Scenario.

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