[153A14]
Eng

SARDAR PATEL UNIVERSITY
B.Sc. EXAMINATION, I SEM

Date : 22nd Nov 2016, Tuesday   Time :10:00am To 12:00noon
Session : Morning   Sub: Information & Communication Technology
Course No : US01FICT02   Total marks : 70

Q – 1 Multiple Choice Question   [10]
   i)   All data and procedures are stored in.
        a) Memory unit of CPU   b) Control Unit of CPU
        c) Process unit of CPU   d) ALU of CPU
   ii) A program in execution is called.
        a) Operating System   b) Application Software   c) Process   d) None
   iii) To display files and folders following command is used.
        a) DISDIR   b) DIR   c) Show DIR   d) None of these
   iv) Which of the following is not an output device?.
        a) Scanner   b) Printer   c) Flat screen   d) Touch Screen
   v)   Which device is used as standard pointing device in graphical user environment.
        a) Keyboard   b) Mouse   c) Joystick   d) Track Ball
   vi) The output quality of a printer is measured by.
        a) Dots Per Inch   b) Dots per Sq. Inch
        c) Dots printed per unit time   d) All of above
   vii) A data type is defined as .
        a) Set of values   b) A type of variable c) Category of constant d) None
   viii) Hard disks can have large capacity than.
        a) Compact Disk   b) DVD   c) Floppy   d) All of above
   ix) Terminators are used in _____ topology.
        a) Bus   b) Star   c) Ring   d) Mesh
   x)   Which one of the following is NOT a network topology?
        a) Star   b) Bus   c) Linear   d) Ring

Q – 2 Short Answer **attempt any ten (Each carry 2 marks)**   [20]
   i)   Define the terms 'Hardware' and 'Software' .
   ii)   What is Operating System? List at least four Operating System.
   iii) List out the minimum five input unit and output unit.
   iv)   What is numeric key pad?
   v)   Write uses of joystick
   vi)   Define Barcode Reader .
   vii) List out Backing Storage Devices?
   viii) What is Back up?
   ix)   What is Alphanumeric Data Type?.
   x)   On which basis network is categorized? Which are they?.
   xi)   Write two basic principles which is used to select operation of data
         communication.
   xii) Define Transmission line.

Q – 3   Draw a block diagram of basic organization of a computer system, and explain   [10]
          the functions of the various units

OR

Q – 3   Draw a logical architecture diagram of a computer system. Explain the role of an   [10]
          operating system in it.

Q – 4   a)   State the functions of F1 to F12 keys.   [06]

         b)   Explain working structure of Dot matrix printer.   [04]

OR

Q – 4   a)   Explain CRT monitors. State the advantages and dis advantages of it.   [06]

         b)   Explain in brief speaker and LCD projector.   [04]

Q – 5   a)   Write note on Floppy disk and Pen drive   [06]

         b)   Difference between Main memory and Backing storage   [04]

OR

Q – 5   a)   Discuss Hard Disk and Flash memory card   [06]

         b)   How many categories of data type? Explain in detail   [04]

Q – 6   a)   Discuss need for Computer communication over a long distance   [05]

         b)   Discuss Ring Topology with figure   [05]

OR

Q – 6   a)   Write a note on transmission technology of LAN   [05]

         b)   Discuss Tree topology with figure   [05]

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