

**PRE BOARD EXAMINATION 2019 MARCH**

Bachelor Level/First Year/I Semester Full Marks: 60

Bachelor in Computer Application (BCA) Pass Marks: 24

English I (CAEN103) Time: 3 Hours

Examination Date: 28th, Mar, 2019

*Candidates are required to give their answers in their own words as for as practicable.*

*The figures in the margin indicate full marks.*

**Write words or expressions, which mean the following. (ANY FIVE) (5X1=5)**

a) A device moved by hand to indicate position on the screen

b) The physical portion of a computer system

c) A group of signal lines used to transmit data in parallel from one element of computer to another

d) Text from word processors and databases can be pre-coded with tags to allow the correct format to be applied automatically

e) Agreement governing the procedures used to exchange information between cooperating computers

f) The logical design of the databases

2. **Define the following technical terms**. **(ANY FIVE) (5X1=5)**

(a) Icon

(b) Microchip

(c) Operating System

(d) Stylus

(e) Pixel

(f) Animation

3. **Answer the following questions in short. (ANY FIVE) (6X5=30)**

a) Describe "the processor".

b) 'Many computers in people's home are just used to play computer games'. In what other ways can computers be used at home, or outside work?

c) You are sales representative trying to sell your company's notebook computer. You are presenting your product to the sales director of manufacturing company that is thinking of buying 100 notebook computers. Write what specific details do you present to the director to convince her.

d) What are WAN and LAN? Describe the distributed system.

e) What is a computer virus? How does a virus work?

f) Who or what is a hacker? Write the ways that make your computers relatively safer.

g) What the prefixes and suffixes do to a word? Give any five examples of each for different cases.

h) How virtual realities are replacing in-person activities? Give examples and explain your opinion logically for or against it.

4. **Answer any one of the following questions. (ANY TWO) (2X10=20)**

a) If you were a software developer, what kind of software package would you develop? Do you think software developers should develop educational software more like the software developed for games? Why or why not?

b) Suppose you manage a company specializing in multimedia hardware and software. Prepare a leaflet to inform companies of the potential benefits of using multimedia. Also, invite them to contact you for a free consultation.

c) Learning a programming language is like learning any natural language. The only difference is that you are communicating with a machine instead of another person. Write an essay including the different **C languages** such as FORTRAN, COBOL, ALGOL, PL/I, BASIC, C, C++ & PASCAL along with their functions and characteristics.

d) Define robotics. Some jobs are suitable for robots, while some must be done by people. Make a list of both and deal logically about the effective use of robots in 21st century.