

**PARUL UNIVERSITY**  
**FACULTY OF AGRICULTURE**  
**B.Tech. FOA Winter 2019 - 20 Examination**

**Semester: 1**  
**Subject Code: 20104112**  
**Subject Name: Computer and Application Software Package**

**Date: 05/12/2019**  
**Time: 10:30am to 12:30 pm**  
**Total Marks: 50**

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**Instructions**

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

**Q.1****A) Fill in the blanks (Each of 0.5 Mark)****(05)**

- i) USB Stand for \_\_\_\_\_.
- ii) A computer network is a set of \_\_\_\_\_ connected together for the purpose of sharing resources.
- iii) ALU Stands for \_\_\_\_\_.
- iv) The radix in Octal number system is \_\_\_\_\_.
- v) Microsoft word is an example of \_\_\_\_\_ software.
- vi) An operating system is a program that acts as an interface between the \_\_\_\_\_ and the \_\_\_\_\_.
- vii)  $(51)_{10}$  is equivalent to  $(\quad)_{2}$ .
- viii) Computer works on \_\_\_\_\_ Language.
- ix) BCD stands for \_\_\_\_\_.
- x) MAC Operating system is an example of \_\_\_\_\_ software.

**B) Multiple Choice Questions (Each of 0.5 Mark)****(10)**

- i) **Which of the following is the product of data processing?**  
a) Information b) Data c) Software program d) System
- ii) **Which one is not an input device?**  
a) keyboard b) Mouse c) Speaker d) Scanner
- iii) **Memories which can be read only are called.**  
a) RAM b) ROM c) DRAM d) Virtual Memory
- iv) **CPU controls \_\_\_\_\_.**  
a) All Input, Output and Processing. b) Controls Memory c) Controlled by the Input data. d) None of the above.

- v) **Which of the following holds the ROM, RAM, CPU?**  
a) Hard Disk b) ALU c) Mother Board d) None of the above.
- vi) **A Collection of 8bits is called-**  
a) Byte b) Record c) Word d) Nibble
- vii) **Which one of the following is known as “Father of Computing”**  
a) Blaise Pascal b) Gottfried von Leibniz c) Charles Babbage d) abacus
- viii) **Vacuum Tube Technology is related to which generation Computer’s**  
a) First Generation b) Second Generation c) Third Generation d) None
- ix) **ENIAC stands for \_\_\_\_\_**  
a) Electronic Numerical Integrator And Computer  
b) Electronic Numerical Integrator And Calculator  
c) Electronic Numerical Integrator Automatic Computer  
d) Electronic Numerical Integrator Automatic Calculator
- x) **Which is an example of first generation computer?**  
a) EDVAC b) EDSAC c) ENIAC d) UNIVAC
- xi) **Which is the most common types of computer?**  
a) Desktop b) Laptop c) Tablet d) Server
- xii) **Which one of the following is the correct format to store data in a database**  
a) In the form of Tables  
b) In the form of Files  
c) In the form of rows only  
d) In the form of columns only
- xiii) **Equivalent Decimal number of  $(1101)_2$  is**  
a) 10 b) 12 c) 13 d) 14
- xiv) **Which one of the following is not an System Software**  
a) Windows operating System  
b) Compiler  
c) Linker  
d) Microsoft Office
- xv) **Way of representing numbers in 0's and 1's form is referred to as**  
a) Binary Number System  
b) Octal Number System  
c) Hexadecimal Number System  
d) Decimal Number System
- xvi) **LAN stands for**  
a) Larger Area Network  
b) Local Area Network  
c) Longest Area Network  
d) Linear Area Network

- xvii) **Which one of the following is correct about storing data in computers**  
 a) The data in computer is always stored in Binary form only.  
 b) The data in computer is always stored in Decimal form only.  
 c) The data in computer can be stored in either of the above form.  
 d) None of the above
- xviii) **Which generation of computer used VLSI (Very Large Scale Integrated Chips) technology that brought bloom in the hardware industries?**  
 a) Fifth Generation  
 b) Second Generation  
 c) Third Generation  
 d) Fourth Generation
- xix) **A number of letter that appears little above ( $X^2$  where X is a normal text) the normal text is called**  
 a) Superscript b) Subscript c) Subtext d) Supertext
- xx) **The octal representation of number  $(101011)_2$  is**  
 a) 53 b) 43 c) 45 d) 55

**Q.2**

**A) Define the following (Any five out of seven questions) (05)**

- (1) Data.
- (2) Software.
- (3)  $(705)_8 = (\text{_____})_2$
- (4) Memory.
- (5)  $0101-0011 = (\text{_____})$
- (6) Database.
- (7)  $(1234)_{10} = (\text{_____})_8$

**B) Answer the following (Any five out of seven questions) (05)**

- (1) Hybrid Computer.
- (2)  $(01001100)$  2's compliment.
- (3)  $(431)_{10} = (\text{_____})_{16}$
- (4) Computer Programs.
- (5)  $(1F0C)_{16} = (\text{_____})_2$
- (6) Hardware.
- (7)  $(1011010111)_2 = (\text{_____})_8$

**Q.3 Write Short notes (Any five out of six questions) (10)**

- (1) Email.
- (2) Operating System.
- (3) Database Management.
- (4) Octal Number.
- (5) Topology.
- (6) OSI Model.

**Q.4 Long Questions (Any three out of four questions) (15)**

- (1) Explain LAN, MAN and WAN with example.
- (2) Difference between RAM & ROM.
- (3) What is computer? explain along with its components.
- (4) Explain the features of modern operating system.