

BACHELOR OF VOCATION
Automotive Manufacturing
Automotive Mechatronics
Subject: Fundamental of Computers
Subject Code: ZBCE-101
Semester: First
January 2021
Theory (External): 35 Marks
Time: 03 Hours

Instructions to the Students

1. This Question paper consists of two Sections. All sections are compulsory.
2. Section A comprises 10 questions of objective type in nature. All questions are compulsory. Each question carries 1 mark.
3. Section B comprises 8 essay type questions out of which students need to do any 5. Each question carries 5 marks.
4. Read the questions carefully and write the answers in the answer sheets provided.
5. Do not write anything on the question paper.
6. Wherever necessary, the diagram drawn should be neat and properly labelled

Roll Number

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SECTION -A (SHORT/OBJECTIVE TYPE QUESTIONS)
(10x1=10 Marks)

- A The ALU stands for _____
- B What is protocol?
a. agreements on how communication components and DTE's are to communicate
b. Logical communication channels for transferring data
c. Physical communication channels used for transferring data
d. None of the above.
- C KB is equal to?
a. 1024MB
b. 1024Bytes
c. 1024 bits
d. 8 bits
- D _____ is used to covert from upper case to lower case and vice versa in Ms Word.
- E Operating System is a?
a. hardware
b. software
c. both a and b
d. none of the above
- F The network topology with highest reliability is
a. Bus
b. Ring
c. Star
d. Mesh

G Execution of two or more programs by a single CPU is known as :

- a. Multiprocessing
- b. Time sharing
- c. Multiprogramming
- d. None of the above

H World Wide Web is being a standard by?

- a. Worldwide corporation
- b. W3C
- c. World Wide Consortium
- d. World Wide Web Standard

I Portrait and Landscape are

- a. Page Orientation
- b. Paper Size
- c. Page Layout
- d. All of above

J The first web browser is

- a. Mosaic
- b. Netscape
- c. Internet explorer
- d. Collabra

SECTION--B (ESSAY TYPE QUESTIONS)
(5x5=25 Marks)

1.
 - a) Explain the block diagram of Computer.
 - b) What are various type of viruc? Explain in Detail.

2. Convert the following:
 - a. $(101\ 101\ 1111)_2$ into Hexadecimal
 - b. $(213)_{10}$ into Binary
 - c. $(FF)_{16}$ into Octal
 - d. $(2711)_8$ into hexadecimal
 - e. State D Morgan law Boolean algebra.

3.
 - a. What is operating system? Explain main function of operating system?
 - b. Differentiate between Multiprogramming, Multiprocessing and Multitasking?

4. Explain seven layers of OSI Reference model.

5. Explain at least 5 networking devices

6. Write short note on:
 - a. Digital Signature
 - b. Firewall
 - c. Star Topology

7. Explain process of Planning and Developing the websites

8.
 - a. Explain the home tab in MS Word?
 - b. Explain the volatile and non-volatile memory.

*****END OF PAPER*****