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200933

BACHELOR OF VOCATION
Automotive Manufacturing
Subject: Fundamentals of Computers
Subject Code: ZBCE-102
Semester: Second
September 2020
Theory (External): 35 Marks
Time: 03 hours

INSTRUCTIONS TO THE STUDENTS

1. Read the questions carefully and write the answers in the answer sheets.
2. Wherever necessary, the diagram drawn should be neat and properly labelled.
3. This questions paper comprises of 6 questions out of which student need to attempt any 3 questions.
4. All questions carry equal marks.
5. The time allotted will be 3 hours for examinations including time of downloading of question paper to emailing of answer books to the concerned Dean/IC.

ESSAY TYPE QUESTIONS

1. What is a Computer? Draw and Explain the Block Diagram of the Computer in detail.
2. Convert the following:
 - i. $(101100110)_2$ into Hexa Decimal
 - ii. $(743)_8$ into Binary
 - iii. $(2D)_{16}$ into Binary
 - iv. $(7834)_{10}$ into Binary
 - v. $(10110011)_2$ into octal
3. Draw and explain OSI network model.
4. What are loops? Name and explain all three types of loop available in C with example.
5. WAP in C to find out whether a number entered by user is prime or not.
6. Differentiate between:
 - i. Compiler and Interpreter.
 - ii. Low level Language and High Language.

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