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200932

DIPLOMA
Piping Technology
Subject: Fundamentals of Computers
Subject Code: CSE-501
Semester: First
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 8 questions out of which student need to attempt any 4 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. Draw the complete architecture of a computer system. Also explain the memory hierarchy in brief.

2. Perform the following number conversions:
 - i. $(11011010)_2 = (\dots\dots\dots)_{10}$
 - ii. $(2A86)_{16} = (\dots\dots\dots)_2$
 - iii. $(1243)_8 = (\dots\dots\dots)_{16}$
 - iv. $(749)_{10} = (\dots\dots\dots)_8$
 - v. $(767)_{10} = (\dots\dots\dots)_4$

3. What is an Operating System? Write its major functions.

4. Write short note on the following (any two):
 - i. Spooling
 - ii. Template and macros
 - iii. ERP Implementation Lifecycle

5. Answer the following:
 - i. What is the difference between HTTP and HTTPS?
 - ii. Explain the following: Macros and Router.

6. What is a search engine? Discuss the architecture of any search engine defining the basic components?

7. Differentiate the following:
 - i. LAN and MAN
 - ii. Bus and Star topology.

8. Answer the following:
 - i. What is network connecting device with their purposes? (2)
 - ii. Explain the functioning of four layers of TCP/IP Model (3)

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