C16-CM–505

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BOARD DIPLOMA EXAMINATION, (C-16)

JANUARY/FEBRUARY—2022

DCME - FIFTH SEMESTER EXAMINATION

ADVANCES IN COMPUTER TECHNOLOGY

Time : 3 hours]   [*Total Marks* : 80

PART—A   3×10=30

Instructions :   (1) Answer **all** questions.

              (2) Each question carries **three** marks.

              (3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. List the goals of UML.

2. Write the purpose of use case diagram.

3. Define object diagram.

4. State the need of big data.

5. List the tools used in big data.

6. List the advantages of VR.

7. Compare traditional programming with machine learning.

8. Classify machine learning.

9. What is ethical hacking?

10. Write about spoofing.

PART—B

Instructions : (1) Answer *any* **five** questions.   10×5=50

(2) Each question carries **ten** marks.

(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. Draw and explain class diagram with example.

12. Draw symbols used in UML notation and explain.

13. List and explain the applications of big data.

14. Define telepresence, cyber space, teleexistence, HCI, haptic technology.

15. Differentiate between virtual reality, augmented reality, mixed reality.

16. *(a)* Write about decision tree learning.

(b) Write about clustering.

17. Explain in detail the principles of cyber security.

18. Describe about penetration testing.

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