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BOARD DIPLOMA EXAMINATIONS

OCT/NOV-2019

DCME - FIFTH SEMESTER

ADVANCES IN COMPUTER TECHNOLOGY

Time: 3 hours

Max. Marks: 80

PART – A

3 X 10 = 30

- Instructions:*
1. Answer **all** questions.
 2. Each question carries **Three** Marks.
 3. Answer should be brief and straight to the point and should not exceed Five simple sentences.

1. Write the purpose of Interaction Diagram.
2. Write any three Goals of UML.
3. How to draw the Use Case Diagram.
4. List the advantages of Big Data.
5. Write any three risks of Big Data.
6. List the characteristics of Immersive Virtual Reality.
7. List the approaches to Machine Learning.
8. Define Clustering in Machine Learning.
9. List the phases in Ethical Hacking.
10. List the Ethical Hacking tools.

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[Cont..]

PART – B

5 X 10 = 50

- Instructions:*
1. Answer any **Five** questions
 2. Each question carries **TEN** Marks.
 3. Answer should be comprehensive and Criteria for Valuation is the content but not the length of the answer.

11. Classify and list the Standard UML Diagrams.
12. List the Building Blocks of UML.
13. Explain the tools used in Big Data.
14. a) Write about Virtual Reality and Mixed Reality.
b) Differentiate between Non-Immersive and Semi-Immersive Systems.
15. Explain the following terms related to Virtual Reality
 - a) Telepresence
 - b) Cyberspace
 - c) Haptics
 - d) HCI (Human-Computer Interaction)
16. Explain the Types of Machine Learning in detail.
17. Explain briefly Cyber Security Principles.
18. Write the roles and responsibilities of Ethical Hackers.