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BOARD DIPLOMA EXAMINATION, (C-16)

MARCH /APRIL-2019

DCME- FIFTH SEMESTER EXAMINATION

ADVANCES IN COMPUTER TECHNOLOGY

TIME: 3 HOURS

Max. MARKS: 80

PART-A

10X3=30M

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) Write the purposes of Use Case Diagram.
- 2) Mention any three building blocks of UML.
- 3) How to Draw the Class Diagram.
- 4) List the risks of Big Data.
- 5) Write any three applications of Big Data.
- 6) List the applications of Virtual Reality.
- 7) Write key elements in Machine Learning.
- 8) Write the types of Machine Learning.
- 9) List the categories of Hackers.
- 10) Define Penetrate Testing.

PART-B

5X10=50M

Instructions : 1) Answer any **five** questions.
2) Each question carries **ten** marks
3) Answers should be comprehensive and the criteria for valuation is the content but not the length of the answer.

- 11) Draw the Different Symbols used in UML notations.
- 12) List the types of Interacion Diagrams.
- 13) Explain the tools used in Big Data.
- 14) a) Write about the characteristics of Immersive virtual reality system.
b) Write advantages and disadvantages of Virtual Reality.
- 15) a) Explain evolution of virtual reality.
b) Explain semi- Immersive system.
- 16) Explain the Decision Tree Learning and Association rule Learning.
- 17) a) Compare between Information Security and Cyber Security.
b) Write Operational Threat Environments.
- 18) a) List any three responsibilities of Ethical Hackers.
b) List and describe various tools used in the Ethical Hacking process

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