

с16-см-505

# 6629

#### BOARD DIPLOMA EXAMINATION, (C-16)

#### JUNE-2019

## DCME-FIFTH SEMESTER EXAMINATION

ADVANCES IN COMPUTER TECHNOLOGY

Time : 3 hours ]

### PART—A

3×10=30

[ Total Marks : 80

- *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 class diagram.
  - 2. List any three symbols used in UML notation.
  - 3. How to draw the interaction diagram?
  - 4. Define big data.
  - 5. What are the characteristics of big data?
  - 6. What is virtual reality?
  - 7. Define machine learning.
  - **8.** List the applications of machine learning.
  - **9.** Write the role and responsibilities of Ethical hacking.
  - **10.** Write the roles of cyber security.

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PART—B

*Instructions* : (1) Answer *any* **five** questions.

- (2) Each question carries **ten** marks.
- (3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.
- 11. Explain the building blocks of UML.
- 12. List the goals of UML.
- SHWADIST, A.P Write the sources of big data and formats of data 13.

7 + 3 = 10

- List and explain the levels of immersion in virtual reality systems. 14.
- Differentiate virtual reality, augmented reality and mixed reality. 15.
- Explain the genetic algorithms and clustering. 16.
- Explain the phases of ethical hacking. 17.
- Explain the following cyber security principles : 18.  $2\frac{1}{2} \times 4 = 10$ 
  - (a) Integrity
  - (b) Confidentiality
  - on-repudiation
  - Availability

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