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C16-CM-505

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BOARD DIPLOMA EXAMINATION, (C-16)

OCT/NOV—2018

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. What is unified modeling language.
2. Draw any three symbols used in UML notation.
3. What is the role of UML in Object Oriented Design.
4. List the sources of Big-data.
5. Write any three risk of Big-data.
6. Define telepresence and Cyberspace.
7. List the key elements in Machine Learning.
8. Define Unsupervised Learning.
9. Define non-repudiation in cyber security.
10. List the categories of Hackers.

**PART-B**

10×5=50

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

11. Explain the building blocks of UML.
12. Explain any three UML diagrams.
13. Explain about selecting and processing of Big-data.
14. Explain Non-immersive and Semi-immersive systems.
15. (a) Write characteristics of immersive VR.  
(b) Write the advantages of VR.
16. (a) Compare Traditional programming with machine learning.  
(b) Write about Artificial neural networks and Association rule learning.
17. (a) Write about the phases in ethical hacking.  
(b) Write about classes of attacks.
18. (a) Write about the roles in cyber security.  
(b) Write about integrity and Availability.

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