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BOARD DIPLOMA EXAMINATION, (C-16)

JUNE/JULY—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. What are the goals of UML?

2. What is relationship? List any three relationships used in UML.

3. State the purpose of use case diagram.

4. Define big data analytics.

5. List various sources of big data.

6. What is haptics?

7. What is machine learning? List any two applications of it.

8. What is clustering?

9. What are the objectives of cyber security?

10. List various ethical hacking tools.

PART—B

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

(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. Explain building blocks of UML. 10

12. What is class diagram? What is the purpose of class diagram? Explain how to draw class diagram with an example. 10

13. Explain the risks of big data. 10

14. What is Immersive system? Explain the characteristics of immersive VR. 10

15. *(a)* Explain about human computer interaction. 5

(b) Write the applications of virtual reality. 5

16. Explain the classification of machine learning. 10

17. Explain the principles of cyber security. 10

18. Explain the phases in ethical hacking. 10

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