

*

C16-CM-505

6629

BOARD DIPLOMA EXAMINATION, (C-16)

MAY/JUNE—2023

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. Write about collaboration diagram.
2. List and classify the standard UML diagrams.
3. Write the purpose of use-case diagram.
4. List the differences between structured and unstructured data.
- * 5. List the tools used in big data.
6. Write about Haptic technologies.
7. List any three applications of machine learning.
8. What is reinforcement learning?
9. List various tools in ethical hacking.
10. Write about non-repudiation in cyber security.

/6629 *

1

[Contd...

*

PART—B

10×5=50

- 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 the building blocks of UML. 10
- 12.** Draw and explain the class diagram with example. 10
- 13.** Explain the characteristics of big data. 10
- 14.** (a) Write the advantages and disadvantages of virtual reality. 5
(b) Write the applications of VR. 5
- 15.** What is immersive system? Explain the characteristics of immersive VR. 10
- 16.** Explain the following :
- (a) Association rule learning 5
(b) Genetic algorithms 5
- 17.** (a) Write about classes of attacks. 5
(b) Write about their roles in cyber security. 5
- 18.** (a) Write the differences between information security and cyber security. 5
(b) Explain penetrate testing. 5

★ ★ ★