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C16-IT-505

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BOARD DIPLOMA EXAMINATION, (C-16)
OCT/NOV—2018
DIT—FIFTH SEMESTER EXAMINATION

ADVANCES IN INFORMATION 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 do you understand by software crisis? Suggest solution to overcome software crisis.
2. What are the advantages of cloud computing?
3. Define Grid computing.
4. What is cluster analysis?
5. What is data discrimination?
6. List the types of tools used in big data.
7. List the application of big data.
8. Where to use interections diagram?
9. List the building blocks of UML.
10. Define sequence diagram.

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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 spiral life cycle model with neat diagram.
- 12.** Compare cluster computing, grid computing, distributed computing, utility computing and cloud computing.
- 13.** Explain the following terms :
- a) Distributed computing b) Utility computing
- 14.** Describe in detail about the data mining functionality.
- 15.** Describe issues regarding preprocessing the data for classification and prediction.
- 16.** a) What is big data and why do we need it?
b) List and explain the application of big data?
- 17.** a) Explain the purpose of class diagram.
b) Draw the class diagram for any application and explain it.
- 18.** a) What is the importance of use case diagram.
b) Explain relationships between use cases with suitable example.

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