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Reg. No. :

Code No. : 30613 E Sub. Code : SECS 6 B

B.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2020.

Sixth Semester

Computer Science – Main

Major Elective – BIG DATA ANALYTICS

(For those who joined in July 2017 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. _____ velocity is about the speed at which data created accumulated ingested and processed.
 - (a) Real time
 - (b) Data
 - (c) Unstructured Date
 - (d) None of these

2. _____ refers to data sets where size is beyond the ability of the typical database software tools to capture, store and analyze.
- (a) Big data (b) Volume
(c) Database (d) SAA
3. _____ risk management is a critical function that spans a diversity of business across a wide range of industries.
- (a) Credit (b) Debit
(c) Cost (d) Market
4. _____ management on a daily basis is a thing of the past because there are higher volatilities.
- (a) Market (b) Risk
(c) Big data (d) Financial
5. _____ is the storage system for a Hadoop clusters.
- (a) Map reduce (b) HDFS
(c) NTFS (d) NFS
6. An _____ is defined by its community of users and contributors.
- (a) Open-source stack (b) Big data
(c) Cloud (d) None of these

7. _____ environments can be either homogenous or heterogeneous commodity hardware environment.
- (a) Cluster (b) Green
(c) Parallel (d) MPP
8. _____ appliances place the storage, memory and computer into a single machine that is optimized for performance and scalability.
- (a) HPC (b) MPP
(c) Cluster (d) Data store
9. _____ innovations tend to be faster to create and can be relatively easier to replicate.
- (a) Decremental (b) Incremental
(c) Cost (d) New
10. _____ are middle managers driving analytical initiatives.
- (a) Soliders
(b) Captains
(c) General
(d) None of these

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) What are the three pinnack stages in the data systems?

Or

- (b) What is Big data? Explain the three dimensions.

12. (a) Write short notes on credit risk management.

Or

- (b) What are the behaviours is used for hybrid credit and fraud problems.

13. (a) Write about the two critical components of Hadoop.

Or

- (b) Discuss about open-source technology for Big data analytics.

14. (a) Write short notes on clusters or grids.

Or

- (b) Explain the three types of user-defined extensions by SQL.

15. (a) Write short notes on Agility.

Or

(b) Discuss innovation in bigdata analytics.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b)

Each answer should not exceed 600 words.

16. (a) Explain in detail about Bigdata and why it is important.

Or

(b) Explain the expanding universe of unstructured data.

17. (a) Discuss in detail about risk and big data.

Or

(b) Explain in detail about disruptive analytics.

18. (a) Describe in detail about Hadoop's parallel world.

Or

(b) Explain the cloud and big data.

19. (a) Explain the big data computing platforms.

Or

(b) Explain the big data emerging technologies.

20. (a) Discuss in detail about rise of the data scientist.

Or

(b) Explain the Holistic view on Analytics.
