Reg. No. ☐☐☐☐☐☐☐☐

VI Semester B.C.A.3 Degree Examination, May/June 2018
BUSINESS INTELLIGENCE
(Regular and Repeaters)

Time : 3 Hours   Max. Marks : 80

Instructions : 1) Answer **all** Parts.
2) Draw **neat** diagrams **wherever** necessary.
3) Write question numbers **correctly**.

PART – A

1. Answer **any ten** of the following :   (2×10=20)

   a) What do you mean by Metadata ? Give example.

   b) What is the key purpose of using IT in business ?

   c) What are the advantages of OLTP systems ?

   d) List the important features of BI.

   e) What is an ODS ?

   f) Mention the advantages of data profiling.

   g) Enumerate the features of logical data model.

   h) What is a metric ? Give example.

   i) What are chart reports ?

   j) What is the significance of content standardization in a report ?

   k) Define the terms entity and attribute.

   l) What is ERP ?

PART – B

Answer **any four** of the following :   (5×4=20)

2. Explain briefly information users in an organization and their requirements.

3. Discuss the role of OLAP in BI architecture.

4. Enlist the responsibilities of an ETL specialist.

5. Explain Rapidly changing dimension and Junk dimension with example.

6. Explain any two report layout types.

7. Define the following terms :
   a) Indicator
   b) Grain
   c) Granularity.

PART – C

Answer **any four** of the following :   (10×4=40)

8. Compare and contrast structured, semistructured and unstructured data.

9. Explain the data models for OLTP and OLAP systems.

10. With a neat diagram, briefly explain the BI component framework.

11. Explain the following :
    a) Star schema
    b) Snowflake schema.   (5+5)

12. What are enterprise reports ? Explain the reporting perspectives common to all levels of an enterprise.

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VI Semester B.C.A. 3 Degree Examination, May/June 2018
SOFTWARE PRACTICES AND TESTING
(Regular/Repeater)

Time : 3 Hours

Max. Marks : 80

Instructions : 1) *Answer the questions of all three Sections.*
2) *Draw diagram wherever necessary.*

SECTION – A

1. Answer **any 10** questions, 2 marks **each** :   (10×2=20)

   a) Define the term static testing.

   b) Write the conclusion for the story "Test the Test First".

   c) Write the formula for cyclomatic complexity.

   d) Distinguish between quality assurance and quality control.

   e) List the various techniques of Black Box testing.

   f) Define the term Domain testing.

   g) What is SRS and TRS ?

   h) Define the Regression testing.

   i) List the methodology for performance testing.

   j) What do you mean by performance benchmarking ?

   k) What is test automation ?

   l) What is Beta testing ?

SECTION – B

Answer **any four** questions, **5 marks each** :   (4×5=20)

2. What are the basic fundamental principles of software testing ?

3. Explain the different phases of V-model with a neat diagram.

4. What is Black Box testing ? Describe the positive and negative test cases for the lock and key example.

5. What is functional testing and non-functional testing ?

6. Discuss the types of regression testing.

7. Define integration and discuss top down interface and bottom up integration with a diagram.

P.T.O.

SECTION – C

Answer **any 4 questions, 10 marks each :** (4×10=40)

8. a) What is white box testing ? Discuss the components of static testing.

   b) Discuss the components of structural testing. (5+5)

9. a) What is compatibility testing ? Write the parameters that affect the compatibility of product.

   b) What is system testing ? (6+4)

10. a) Discuss the following non-functional testing techniques :

    i) Reliability testing

    ii) Stress testing.

    b) What is scenario testing ? Explain the types of scenario. (5+5)

11. a) Describe the skills needed for automation testing.

    b) What is usability testing ? Explain the phases and activities of usability testing. (5+5)

12. a) Explain the organization structure of a multiproduct company.

    b) Explain the tools used for testing the object oriented system. (5+5)

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