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VI Semester B.C.A Degree Examination, May/June - 2026

COMPUTER APPLICATION
Mobile Application Development
(NEP Scheme (F+R))

Time : 2½ Hours**Maximum Marks : 60****Instructions to Candidates:***Answer all the Sections.*

SECTION - A

I. Answer any Four questions. Each question carries Two marks. (4×2=8)

1. List out the key components of the Android development framework.
2. List out the uses of application context.
3. List the different layout for designing an app.
4. Define intent filters.
5. Define SQLite.
6. What is app testing?

SECTION - B

II. Answer any Four questions. Each question carries Five marks. (4×5=20)

7. Describe the features of android SDK.
8. Explain in detail about structure of an android application.
9. Discuss about the life cycle of an activity with a neat diagram?
10. Explain table layout with an example.
11. Explain the application of content providers with examples.
12. Write a code to execute a simple android application.

[P.T.O.]



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SECTION - C

III. Answer any Four questions. Each question carries Eight marks.

(4×8=32)

13. Explain the steps to prepare an app for publication.
 14. Create a java code to rotate an image clockwise on the screen.
 15. What is an intent? Explain in detail with an example.
 16. Illustrate the steps to manage data using SQLite.
 17. Explain Android web APIs.
 18. Write the steps to implement animation in android.
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VI Semester B.C.A. (Theory) Degree Examination, May/June - 2026

COMPUTER SCIENCE
Electronic Content Design
(NEP Scheme)

Time : 2½ Hours**Maximum Marks : 60****Instructions to Candidates:***Answer All the Sections.*

SECTION - A

I. Answer any Four of the following questions. Each question carries 2 marks. (4×2=8)

1. What is E-Learning?
2. What is responsive web design?
3. Define prototyping.
4. Explain the basic CSS syntax.
5. What is multimedia content creation?
6. List any two LMS platform.

SECTION - B

II. Answer any Four of the following questions. Each question carries 5 marks. (4×5=20)

7. Explain best practices of online learning.
8. What is SEO? Explain the working mechanism.
9. Explain different file formats in digital content.
10. Briefly explain the reusability feature of E-content.
11. Discuss the role of typography in Design.
12. List and explain the challenges in designing and developing E-content.

[P.T.O.]

**SECTION - C**

III. Answer any Four of the following questions. Each question carries 8 marks. (4×8=32)

13. Explain the tools to create an online learning.
 14. Mention the types of usability testing and explain the importance of usability testing and feedback collection.
 15.
 - a) What are the roles and challenges of copyright and ethics in digital content?
 - b) Explain types of CMS.
 16. Briefly explain ADDIE and ASSURE instructional model.
 17.
 - a) Explain the different phases involved in E-content development.
 - b) Explain any Four HTML Tags.
 18.
 - a) Explain any four responsive web design techniques.
 - b) Explain the benefits and challenges of wireframing.
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VI Semester B.C.A. Degree Examination, June/July - 2026**COMPUTER APPLICATIONS****Software Testing****(NEP Scheme)****Paper - 3****Time : 2½ Hours****Maximum Marks : 60****Instructions to Candidates:**

Answer all the Sections.

SECTION - A**I. Answer any Four questions. Each question carries Two marks. (4×2=8)**

1. What is software Testing?
2. What is an Error and Failure?
3. What do you mean by Equivalence classes?
4. What do you mean by SATM System?
5. Mention any two issues of object oriented using.
6. What is mean by exploratory testing?

SECTION - B**II. Answer any Four questions. Each question carries Five marks. (4×5=20)**

7. Explain testing life cycle.
8. What is verification and validation in Software Testing? Explain the techniques for verification and validation.
9. Write the differences between weak normal and strong normal equivalence testing.
10. Explain equivalence class Test cases for The Next Date function.
11. Explain model based testing.
12. Write the Advantages and Dis-advantage of automated test execution.

[P.T.O.]



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SECTION - C

III. Answer any Four questions. Each question carries Eight marks.

(4×8=32)

13. Discuss the guidelines for Boundary value testing.
 14. Explain the forms or variations of Equivalence class Testing with examples.
 15. Explain the Test cases for the Triangle problem in Decision Table Based Testing.
 16. List the characteristics of data flow testing.
 17. What is Client Server Testing? Explain the Testing strategy.
 18. Discuss interaction in single processor.
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VI Semester BCA Degree Examination, May/June - 2026**COMPUTER APPLICATIONS****Machine Learning****(NEP Scheme)****Time : 2½ Hours****Maximum Marks : 60****Instructions to Candidates:****Answer all sections.****SECTION - A****I. Answer any Four of the following questions. Each question carries 2 marks. (4×2=8)**

1. What is machine learning? Give an example.
2. Define labeled data.
3. What is feature Engineering?
4. What is classification? Give an example.
5. Define Linear Regression?
6. What is image segmentation?

SECTION - B**II. Answer any Four of the following questions. Each question carries 5 marks. (4×5=20)**

7. Explain machine learning life cycle.
8. Explain steps in data preparation process.
9. Difference between Regression and Classification.
10. Explain KNN algorithm for classification.
11. Explain clustering.
12. Explain how DBSCAN works.

[P.T.O.]



SECTION - C

III. Answer any **Four** of the following questions. Each question carries **8** marks. (4×8=32)

13. Explain applications of machine learning. (8)
 14. Explain data visualization techniques. (8)
 15. Explain decision tree algorithm. (8)
 16. Explain working of K-means clustering. (8)
 17. Write a note on :
 - a) Data cleaning. (4)
 - b) Regression. (4)
 18. Explain hierarchical and fuzzy clustering. (8)
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