

MARCH - 2026 – 1 - 473
B. C. A. Sem - VI (NEP Course) Examination
March - 2026

Advance Java Programming

Total Marks : 50

Time : 2½ Hours

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| 1. | Answer the following : Any Two
1. Explain the J2EE platform in detail.
2. Describe the J2EE architecture with a neat diagram.
3. Explain the differences between JDBC and ODBC drivers/ | 10 |
| 2. | Attempt the following : Any Two
1. Explain the servlet life cycle.
2. Describe RMI Architecture and its components in detail.
3. Differentiate between RequestDispatcher and sendRedirect(). | 10 |
| 3. | Answer the following : Any Two
1. Describe the introduction of JSP and explain the advantages of JSP over servlets.
2. What are implicit objects in JSP ? Explain any five implicit objects with their values.
3. Write and explain JDBC example using servlets for database connectivity and data retrieval. | 10 |
| 4. | Answer the following : Any Two
1. Draw and explain the Architecture of hibernate.
2. Describe the various mapping types in hibernate.
3. Write a short note on hibernate APIs. | 10 |
| 5. | Do as Directed :
1. Full form of CRUD.
2. Name any two J2EE technologies.
3. Which package contains JDBC classes ?
4. Which method is called only one in servlet life cycle ?
5. What is session tracking ?
6. Define : RMI
7. What is a scriptlet in JSP ?
8. Which method processes client request in JSP ?
9. Define : ORM
10. What is an Entity in Hibernate ? | 10 |

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Web Development Using Asp.Net

Total Marks : 50

Time : 2½ Hours

1. Answer the following : Any Two 10
 1. Illustrate key features of ASP.NET technology.
 2. Demonstrate MVC architecture in ASP.NET
 3. Describe ASP.NET Application Life Cycle.
2. Attempt the following : Any Two 10
 1. List out all standard controls and describe RadioButton, DropDownList controls.
 2. What are validation controls ? Explain RangeValidator and RegularExpression Validator.
 3. Describe SiteMapPath controls with example.
3. Answer the following : Any Two 10
 1. What is state management in ASP.NET ? Explain View State in detail.
 2. What is AJAX ? Describe ScriptManager and UpdatePanel Control.
 3. Classify authentication and authorization. Explain Form authentication.
4. Answer the following : Any Two 10
 1. What is data binding ? Describe Grid View Control.
 2. Classify types of caching and explain it.
 3. Write brief note on SOAP and RES services.
5. Answer the following : Any Five 10
 1. Define : IIS
 2. What is a Master Page ?
 3. Define : Skins in ASP.NET applications.
 4. What is AJAX Control Toolkit ?
 5. Define : Global.asax file
 6. What is LINQ ?

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B. C. A. Sem - VI (NEP Course) Examination
March - 2026
Unified Modelling Language (UML)

Total Marks : 25

Time : 2 Hours

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|----|---|----|
| 1. | Answer the following : Any Two
1. What is UML ? Discuss the purpose of UML.
2. Explain Architecture of UML.
3. Explain Software Development Life Cycle in detail. | 10 |
| 2. | Attempt the following : Any Two
1. What is Class ? Explain Class Names, Attributes and Operations.
2. Explain dependency and association relationships in UML.
3. Discuss the concept of types and roles in UML interfaces. | 10 |
| 3. | Answer the following : Any Two
1. What is Package ? Explain generalization within packages.
2. Explain use cases and collaborations in UML.
3. Explain the common properties and contents of class diagrams. | 10 |
| 4. | Answer the following : Any Two
1. Explain modification and destruction of objects in UML interactions.
2. Explain interaction diagrams in UML.
3. Explain action states and activity states in an activity diagram. | 10 |
| 5. | Answer the following :
1. What is the meaning of the responsibility of a class ?
2. What is a Class Diagram ?
3. A_____ relationship represents the connection between an interface and a class.
4. What is a component diagram ?
5. Define : Context
6. UML supports both forward and reverse engineering. (True / False)
7. What is a State Chart Diagram ?
8. What is Link Message ?
9. What is Visibility ?
10. What is a transaction ? | 10 |

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B. C. A. Sem - VI (NEP Course) Examination

March - 2026

Digital Communication and Marketing Skills

Total Marks : 25

Time : 2 Hours

1. Attempt the following : Any Two 10
 1. Explain difference between Traditional marketing and Digital Marketing.
 2. Explain categories for Digital Media Marketing.
 3. Explain popular Digital Marketing Platform.
2. Attempt the following : Any Two 10
 1. Explain Social Media Optimization (SMO).
 2. Explain role of M-commerce and E-commerce in digital marketing.
 3. Explain Social Media Analytical Tools for tracking performance.
3. Attempt the following : 05
 1. Define : E-commerce
 2. What is Digital Marketing ?
 3. Difference between Google Ads and AdSense.
 4. Full Form : SEO, CMS
 5. What is WordPress ?

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B. C. A. Sem - VI (NEP Course) Examination

March - 2026

Digital Communication and Marketing Skills

Total Marks : 25

Time : 2 Hours

1. Attempt the following : Any Two 10
 1. Explain difference between Traditional marketing and Digital Marketing.
 2. Explain categories for Digital Media Marketing.
 3. Explain popular Digital Marketing Platform.
2. Attempt the following : Any Two 10
 1. Explain Social Media Optimization (SMO).
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 3. Explain Social Media Analytical Tools for tracking performance.
3. Attempt the following : 05
 1. Define : E-commerce
 2. What is Digital Marketing ?
 3. Difference between Google Ads and AdSense.
 4. Full Form : SEO, CMS
 5. What is WordPress ?

MARCH - 2026 – 1 - 481
B. C. A. Sem - VI (New Course) Examination
March - 2026
Python Programming

Total Marks : 70

Time : 2.5 Hours

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|-----|---|----|
| 1.a | Attempt the following : | 06 |
| | 1. List Data types available in python | |
| | 2. List applications of Python. | |
| | 3. Define : list, tuple | |
| 1.b | Attempt the following : Any Two | 12 |
| | 1. Explain String data type in detail with example. | |
| | 2. Explain Arithmetic and logical operators in detail with example. | |
| | 3. Explain the Comparison between c and python. | |
| 2.a | Answer the following : | 05 |
| | 1. What is Python Array ? Give the difference between list and array. | |
| | 2. How to define functions in python ? Give syntax | |
| 2.b | Answer the following : Any Two | 12 |
| | 1. Explain elif ladder statement with syntax and example. | |
| | 2. Explain function with positional, keyword and default arguments with example. | |
| | 3. How to create our own module in python ? Explain with example. | |
| 3.a | Answer the following : | 06 |
| | 1. What is File ? How to read data from file. | |
| | 2. How to join two lists ? Give example. | |
| | 3. Define : Object, class | |
| 3.b | Answer the following : Any Two | 12 |
| | 1. What is list comprehension ? Give syntax. Also give example. | |
| | 2. Explain file handling functions with example. | |
| | 3. Explain types of inheritance in detail with example. | |
| 4.a | Answer the following ; | 05 |
| | 1. Explain file wildcards with example. | |
| | 2. Define : MySQL, python RegEx | |
| 4.b | Answer the following : Any Two | 12 |
| | 1. What is Exception ? How to handle exception in python ? Explain with syntax and example. | |
| | 2. Write a Python program to display records from the MySQL database table. | |
| | 3. Explain MySQL command used to create database, display database and delete database. | |
