No. of Printed Pages : 2

21BCA6C17PML

Sl. No.

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

COMPUTER SCIENCE

PHP and MySQL

(NEP)

Time : 2 Hours **Maximum Marks : 60**

SECTION - A

Answer All the questions.Each question carries 1 mark. **(10×1=10)**

1. a) What is PHP?

   b) Define variable in PHP.

   c) List different types of loops in PHP.

   d) What is an array?

   e) Define recursive function.

   f) Write three different types variable scopes.

   g) Define class and object in PHP.

   h) What is constructor and destructor in PHP?

   i) Listout any two MySQL Commands.

   j) Give an example for SELECT statement.

SECTION - B

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

2. Explain different features of PHP.
3. Write a notes on types of an arrays in PHP.
4. Explain briefly how to create function in PHP?

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5. Write brief notes on handling HTML form in PHP.
6. Explain MySQL commands (CREATE, INSERT) with an example.
7. Write PHP script to find factorial of a given number.

SECTION - C

Answer any Three questions.Each question carries 10 marks. **(3×10=30)**

8. Briefly explain any four types of operators in PHP with an example.
9. With syntax and an example explain all looping statements in PHP.
10. Explain different PHP string functions with an example.
11. How to create class and an object in PHP explain with an example.
12. Establish connection between PHP and MySQL with steps and an example.

21BCA6VWCMS

VI Semester B.C.A. (NEP) Degree Examination, June/July 2026
COMPUTER SCIENCE
VOC : Web Content Management System

Time : 2 Hours Max. Marks : 60

SECTION – A

Answer the following sub-questions, **each** sub-question carries **one** mark. **(10×1=10)**

1. a) Define web content management.
   b) List any two common types of web content formats.
   c) Define web hosting.
   d) Why is screen recording useful in e-learning ?
   e) Expand UI and UX.
   f) What do you mean by flexbox ?
   g) Name any two examples of E-publication tools.
   h) What is virtual reality ?
   i) Give an example of CMS other than Joomla and Drupal.
   j) What is discussion forum ?

SECTION – B

Answer **any four** of the following questions, **each** question caries **five** marks. **(4×5=20)**

2. Discuss the norms and guidelines of content development.
3. Explain the key features of presentation software.
4. Explain how to create and manage a blogsite.
5. Explain the basic features of moodle.
6. Describe the steps to create a quiz in moodle.
7. Write a short notes on simulation and virtual reality.

P.T.O.

SECTION – C

Answer **any three** of the following questions, **each** question carries **ten** marks. **(3×10=30)**

8. Explain digital graphics creation process.

9. Describe the process of creating and maintaining a wiki site.

10. Explain the designing of a website using CSS.

11. Explain the complete process of creating 2D and 3D animations.

12. Discuss Drupal CMS in detail with features, advantages and use cases.

21BCA6C16AIL

VI Semester B.C.A. (NEP) Degree Examination, June/July 2026
COMPUTER SCIENCE
DSC 16 : Artificial Intelligence and Applications

Time : 2 Hours Max. Marks : 60

SECTION – A

Answer the following sub-questions, **each** sub-question carries **one** mark. **(10×1=10)**

1. a) Define artificial intelligence.
   b) What is agent program ?
   c) What is a well defined problem ?
   d) What is greedy best-first search ?
   e) Define a knowledge-based agent.
   f) What is backward chaining ?
   g) What is underfitting ?
   h) Define activation function in ANN.
   i) What is text classification ?
   j) Define robotics.

SECTION – B

Answer **any four** of the following questions, **each** question carries **five** marks. **(4×5=20)**

2. What are the four components of PEAS ?
3. Explain uniform cost search with example.
4. Describe propositional logic syntax and semantics.
5. Describe supervised machine learning.
6. Discuss about the speech recognition system.
7. Explain heuristic functions with example.

P.T.O.

SECTION – C

Answer **any three** of the following questions, **each** question carries **10** marks. **(3×10=30)**

8. Discuss any two types of intelligent agents with suitable examples and diagrams.

9. Explain A* search algorithm with complete working and example.

10. Describe Wumpus world in detail with rules and representation.

11. Explain decision trees with diagram and example.

12. Explain natural language processing in detail.

21BCA6E2FDS

VI Semester B.C.A. (NEP) Degree Examination, June/July 2026
COMPUTER APPLICATIONS
DSE : Fundamentals of Data Science

Time : 2 Hours | Max. Marks : 60

SECTION – A

Answer **all** the questions. **Each** question carries **1** mark. **(10×1=10)**

1. a) Define data mining.
   b) What is KDD ?
   c) What is data warehouse ?
   d) Define data cleaning.
   e) What is support in association rules ?
   f) Define apriori algorithm.
   g) What is classification ?
   h) Define precision.
   i) What is clustering ?
   j) Define centroid.

SECTION – B

Answer **any 4** questions. **Each** question carries **5** marks. **(4×5=20)**

2. Differentiate Data Mining and KDD.
3. Explain data preprocessing steps.
4. Describe apriori algorithm.
5. Explain decision tree induction.
6. Explain K-means clustering.
7. Explain data integration and transformation.

P.T.O.

SECTION – C

Answer **any 3** questions. **Each** question carries **10** marks. **(3×10=30)**

8. a) Explain data mining techniques.
   b) Discuss challenges in data mining.

9. Explain data warehouse architecture and ETL process.

10. a) Explain apriori algorithm with example.
    b) Compare apriori and FP-growth.

11. Explain classification techniques and evaluation metrics.

12. Explain clustering methods and their evaluation.
