

B.C.A Semester - 6 (CBCS) Examination
March/April-2026 (NEW COURSE)
Programming in Advance Python-2 (Core (New))

Time: 2:30 Hours**Marks: 70****Instructions:**

1. All questions are compulsory.
 2. Figures to the right indicate marks.
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- Que. 1 (A) Attempt following questions. (03)
- 1) The _____ widget is used for drawing shapes, images, and graphics.
 - 2) A separate window created on top of the main window is called _____.
 - 3) The widget that allows the user to select only one option from a group is _____.
- Que. 1 (B) Attempt following. (Attempt Any Two) (06)
- 1) Explain Checkbutton widget with example.
 - 2) Explain Label widget with example.
 - 3) Explain Message widget with an example.
 - 4) Explain Listbox widget with an example
- Que. 1 (C) Attempt following. (Attempt Any One) (05)
- 1) Explain Canvas widget with an example.
 - 2) Explain Toplevel widget with an example.
- Que. 2 (A) Attempt following questions. (03)
- 1) NumPy was originally developed by _____ in 2005.
 - 2) `arr = np.array([1, 2, 3, 4, 5])` this statement create _____ dim ndarray.
 - 3) _____ attribute of ndarray object return number of dimension.
- Que. 2 (B) Attempt following. (Attempt Any Two) (06)
- 1) Explain `np.around()` and `np.floor()` with an example.
 - 2) Explain `np.arange()` and `np.logspace()` with an example.
 - 3) Explain numpy bitwise operator.
 - 4) Explain `np.array()` and `np.asarray()` with an example.
- Que. 2 (C) Attempt following. (Attempt Any One) (05)
- 1) Explain NumPy Data type in detail.
 - 2) Explain NumPy Array iteration with example.
- Que. 3 (A) Attempt following questions. (03)
- 1) _____ method is used to set value of x – axis in pyplot.
 - 2) A _____ plot is a type of plot that shows the data as a collection of points.
 - 3) The _____ method is the entry point for a thread.
- Que. 3 (B) Attempt following. (Attempt any two) (06)
- 1) Explain bar plot in Python.
 - 2) Explain scatter plot in Python.
 - 3) Explain pie plot in Python.
 - 4) What is matplotlib? Why it is useful in Python?
- Que. 3 (C) Attempt following. (Attempt any one) (05)
- 1) What is Thread? Why it is useful? Explain with an example.
 - 2) Explain Synchronizing Thread with an example.
- Que. 4 (A) Attempt following questions. (03)
- 1) Which query is use to insert data within table?
 - 2) Which query is use to update the data within table?
 - 3) Which query is use to select data from the table?

- Que. 4 (B) Attempt following. (Attempt any two) (06)
- 1) Write down the code to create table in database.
 - 2) Explain cursor() method of connection object with example.
 - 3) Explain execute() and executemany() method with example.
 - 4) Write down the code to insert data in table.
- Que. 4 (C) Attempt following. (Attempt any one) (05)
- 1) Explain database defining Model in Python.
 - 2) Explain fetchone() and fetchall() method with example.
- Que. 5 (A) Attempt following questions. (03)
- 1) _____ command is used to run django project.
 - 2) _____ command is used to create django project.
 - 3) _____ command is used to create application in django project.
- Que. 5 (B) Attempt following. (Attempt any two) (06)
- 1) Explain django MVT pattern in detail.
 - 2) What is view? How to create a view in django?
 - 3) What is a model? Explain how a model is created and registered from the admin panel.
 - 4) Explain django project structure in detail.
- Que. 5 (C) Attempt following. (Attempt any one) (05)
- 1) Explain HTTP Request and HTTP Response concept of web application.
 - 2) Explain django application life cycle.
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