

M.Sc. - I (Computer Science) (NEP Pattern) Semester-I
NEP-23 / 01MSCCS03 - Paper-III - Advanced Java

P. Pages : 2

Time : Three Hours



GUG/W/24/15080

Max. Marks : 80

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- Notes :
1. All questions are compulsory and carry equal marks.
 2. Draw neat and labelled diagram and use supporting data wherever necessary.
 3. Avoid vague answer and write specific answer related to questions.

Either:

1. a) Explain History and key features of Java. 8
- b) Write a note on: 8
- i) Constructor ii) Overloading constructor.

OR

- c) Describe the basic programming concept in Java including identifiers keywords and control structures. 8
- d) Explain the java Development cycle in detail. 8

Either:

2. a) Describe Interface in Java with suitable example. 8
- b) Write a program to demonstrate the try-catch mechanism. 8

OR

- c) Write a note on: 8
- i) Importing packages ii) User defined packages
- d) Explain multithreading concept in Java. 8

Either:

3. a) Explain Applet Architecture in detail. 8
- b) Describe Layout managers with example. 8

OR

- c) Write a note on: 8
- i) HTML Applet tag ii) Passing parameter to Applet
- d) Explain any four controls in detail. 8

Either:

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| 4. | a) | Explain Life cycle of Servlet. | 8 |
| | b) | What is JSP? And how familiar with JSP server. | 8 |

OR

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| | c) | Create a servlet that sets and reads cookies. | 8 |
| | d) | What are JSP Directives and tags? Explain. | 8 |
| 5. | | Solve all the question. | |
| | a) | What is JDK? Explain. | 4 |
| | b) | Explain thread class & Runnable Interface. | 4 |
| | c) | What is Event Handling in swings? Explain. | 4 |
| | d) | How session Tracking using HTTP servlet? Explain. | 4 |
