

M.Sc.(Computer Science)-I (CBCS Pattern) First Semester
PSCSCT01-Paper - I : Advanced Java

P. Pages : 2

Time : Three Hours



GUG/W/18/11142

Max. Marks : 80

- Notes :
1. All the questions are compulsory and carry equal marks.
 2. Draw neat and labelled diagrams wherever necessary.
 3. Avoid vague answers and write specific answers to the questions.

1. Either

- a) What are the different types of methods in Java? Explain any two of method with suitable example. **8**
- b) Write a program to demonstrate System class. **8**

OR

- c) Explain exception handling in java with suitable example. **8**
- d) Explain in brief Thread synchronization with suitable example. **8**

2. Either

- a) Write a program to create a socket to remote host on a port. **8**
- b) Explain Applet life cycle in detail. **8**

OR

- c) Explain event handling in brief with suitable example. **8**
- d) Write a program to create frame based chatting application. **8**

3. Either

- a) Define collection framework. Explain collection Interface and its method. **8**
- b) Write a program to connect to the ORACLE database and retrieve first five rows of EMP table. **8**

OR

- c) What do you mean by Drivers? Explain any two drivers with suitable example. **8**
- d) Differentiate between vector and Array List. Write a program for Array List and vector class. **8**

4. Either

- a) What is servlet? Explain life cycle of servlet with suitable example. **8**
- b) Create a JSP to print "HiM.Sc.-c/s" Message. **8**

OR

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|------|-----------------------------------|--------------|
| c) | Explain the following Attributes: | 8 |
| i) | Language. | ii) Info |
| iii) | Buffer. | iv) Session. |

- | | | |
|----|---|---|
| d) | Create a JSP to demonstrate writer class. | 8 |
|----|---|---|

5. Attempt all the questions.

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|----|--|---|
| a) | Explain user defined exception. | 4 |
| b) | Write about Integer class. | 4 |
| c) | Explain the benefit of collection framework. | 4 |
| d) | Explain in short about cookies. | 4 |
