

**R13**

Code No: 117FX

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, April/May - 2018

OBJECT ORIENTED PROGRAMMING THROUGH JAVA

(Electronics and Communication Engineering)

Time: 3 Hours

Max. Marks: 75

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

**PART- A**

(25 Marks)

- 1.a) Explain about garbage collection. [2]
- b) Discuss about the scope and lifetime of variables. [3]
- c) Define package. [2]
- d) Explain about importing packages. [3]
- e) Discuss about type wrappers. [2]
- f) Write some generics restrictions. [3]
- g) Describe adapter classes. [2]
- h) Explain about BorderLayout. [3]
- i) Describe the HTML APPLET tag. [2]
- j) Explain about MVC architecture. [3]

**PART-B**

(50 Marks)

- 2.a) Discuss about nested inner classes.
  - b) What are Java buzzwords? Explain. [5+5]
- OR**
- 3.a) What are jump statements? Explain.
  - b) Describe argument passing with examples. [5+5]

- 4.a) Give an example of access protection.
- b) Explain with a sample program how to define and implement interfaces. [5+5]

**OR**

- 5.a) Explain about variables in interfaces.
- b) Describe FileInputStream and FileOutputStream with example. [5+5]

- 6.a) What are Java's built-in exceptions? Explain.
- b) Discuss in detail about autoboxing with examples. [5+5]

**OR**

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- 7.a) Explain about special string operations.
- b) Describe accessing a collection via an Iterator.

[5+5]

- 8.a) Discuss about CheckboxGroup.
- b) What are event listener interfaces? Explain.

[5+5]

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- 9.a) Explain about managing scroll bars.
- b) What are AWT classes? Explain.

[5+5]

- 10.a) Discuss about passing parameters to applets.
- b) Explain about JToggleButton.

[5+5]

OR

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- 11.a) Write concepts of applets.
- b) Discuss in detail about JTable.

[5+5]

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