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Question Paper Code: 59801

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2018

Elective

Information Technology

15UIT901- PROGRAMMING PARADIGMS

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 1 = 5 Marks)

1. Which of the following concepts means wrapping up of data and functions together? CO1 -R
(a) Abstraction (b) Encapsulation (c) Inheritance (d) Polymorphism
2. In python a string is appended to another string by using which operator. CO2- R
(a) + (b)* (c>[] (d) +=
3. Which of these methods can be used to obtain the coordinates of a mouse? CO3 -R
(a) getPoint() (b) getCoordiantes()
(c) getMouseXY() (d) getM()
4. Which of the following exception should be handled at compile time? CO4- R
(a) Checked (b) UnChecked (c) Error (d) All
5. Which two are valid constructors for Thread? CO5- R
 1. Thread(Runnable r, String name)
 2. Thread()
 3. Thread(int priority)
 4. Thread(Runnable r, ThreadGroup g)
 5. Thread(Runnable r, int priority)(a) 1 and 3 (b) 2 and 4 (c) 1 and 2 (d) 2 and 5

PART – B (5 x 3= 15Marks)

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| 6. Compare Abstraction and Encapsulation in Java – OOPS With Suitable Programs | CO1 -R |
| 7. How is J2SE different from J2EE? | CO2- R |
| 8. List the steps needed to show a frame. | CO3 -R |
| 9. What are the motivations for generic programming? | CO4 -R |
| 10. Brief about Executors class. | CO5 -R |

PART – C (5 x 16= 80Marks)

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| 11. (a) Construct a Program to generate Student Internal Mark for the Department by using Inheritance Class, Polymorphism. | CO1- App | (16) |
| Or | | |
| (b) Write an interface which declares stack operations such as push() and pop(). Create a class which implements the interface operations that support growing stack. | CO1 -App | (16) |
| 12. (a) Construct a ASP.net College website By using Dot net Architecture. | CO2 -App | (16) |
| Or | | |
| (b) (i) Compare the architecture of J2EE and .NET | CO2 -Ana | (8) |
| (ii) Explain the capabilities of DOJO. | CO2 -Ana | (8) |
| 13. (a) (i) Design a 2D Program with Graphics 2D,Shapes,AWT and Color Explain a Program in Java | CO3- Ana | (8) |
| (ii)Write a JAVA program to design GUI for workshop registration form using Swing concept. | CO3 -Ana | (8) |
| Or | | |
| (b) (i) Explain the Model View Controller design pattern. | CO3- Ana | (8) |
| (ii)Write a JAVA program to demonstrate the different type of mouse events | CO3 -Ana | (8) |
| 14. (a) Explain the generic classes and generic methods with example. | CO4- U | (16) |
| Or | | |
| (b) (i) Explain the keywords try, catch, throw, throws and finally in handling Exception. Give an example JAVA program to demonstrate the usage of the keywords related to handling Exception. | CO4 -Ana | (8) |

- (ii) Write a JAVA program to create own Exception class "StateNameException". The instance of the Exception class should be created and thrown to the program if the user inputs invalid State name in India. Write a JAVA program to test the Exception class. CO4 -Ana (8)
15. (a) Construct a Program by using Multithreading For FIR Application in Police Station CO5- U (16)
- Or
- (b) Discuss thread safe collections briefly. Write a simple multi threaded program for readers writers problem. CO5 -U (16)

