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| **Roll No**  **A** |  |  |  |  |  |  |  |

**KGiSL INSTITUTE OF TECHNOLOGY**

**DEPARTMENT OF INFORMATION TECHNOLOGY**

**Model Exam – OCT -- 2018**

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| **CLASS:** | **:** | **II B.Tech IT** | **MAX MARKS** | **:** | **100** |
| **SEMESTER:** | **:** | **III** | **DURATION** | **:** | **3:00 Hrs** |
| **SUBJECT:** | **:** | **Object Oriented Programming** | **CODE** | **:** | **CS8392** |
|  |  |  | **DATE** | **:** |  |

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| **PART – A ( 10 X 2 = 20 Marks )** | | |
| **I** | **ANSWER ALL QUESTIONS** | |
|  | 1. | What are the four principles? |
|  | 2. | What is encapsulation? |
|  | 3. | Give a short note on static members of a class. |
|  | 4. | Define abstract classes. |
|  | 5. | What is interface? |
|  | 6. | Differentiate shallow vs deep cloning. |
|  | 7. | Draw the life cycle of applet. |
|  | 8. | Give short note on drawOvel method from Graphics class. |
|  | 9. | What is event driven programming? |
|  | 10. | List all the methods defined in Mouse Listener interface. |

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| **PART – B ( 5 X 13 = 65 Marks )** | | | | |
| **II** | **ANSWER ALL QUESTIONS** | | | |
|  | 11. | (a) | Write a program that gets the student details from the user and Display their grade based on average [O, A, B, C, D, F]. | **13** |
|  |  | **( OR )** | | |
|  |  | (b) | Perform sum of array elements and find the sum is prime or not. | **13** |
|  |  |  |  |  |
|  | 12. | (a) | Explain about constructors in java with example. | **13** |
|  |  | **( OR )** | | |
|  |  | (b) | Explain about ArrayList class and its methods in java. | **13** |
|  |  |  |  |  |
|  | 13. | (a) | Explain about String class and its methods in java. | **13** |
|  |  | **( OR )** | | |
|  |  | (b) | Explain about interfaces with an example. | **13** |
|  |  |  |  |  |
|  | 14. | (a) | Write an awt program that draws shapes using Graphics2D classes. | **13** |
|  |  | **( OR )** | | |
|  |  | (b) | Write an awt program to drawlines based on mouse clicks. | **13** |
|  |  |  |  |  |
|  | 15. | (a) | Write a program to draw a rectangle using canvas and grows the circle when click inside. | **13** |
|  |  | **( OR )** | | |
|  |  | (b) | Write a program that helps to calculate emi details based on interest and tenure using swing. | **13** |
|  |  |  |  |  |
| **PART – C ( 1 X 15 = 15 Marks )** | | | | |
| **III** | **ANSWER ALL QUESTIONS** | | | |
|  | 16. | (a) | Write a program that handles simple banking transaction systemReceive and store user information’s and generate an account number in sequence begins with 3036118900 to n Create an interface called CustomerOperations [contains debit and credit transaction methods].Maintain two types of account [Savings and Current]. | **15** |
|  | **( OR )** | | | |
|  |  | (b) | Write a program that draws basic shapes using applet. | **15** |

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| **Signature of Faculty** | **Signature of HOD** |