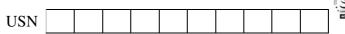
CMR INSTITUTE OF TECHNOLOGY





L3

Internal Assesment Test - II

| Sub: | Object Oriented Concepts Code: | | | | | | | | 17CS42 | | | | | |
|-------|---|-----------|------------|---------------|----|------|----|-------------------|--------|-----|-----|--|--|--|
| Date: | 15 /4/2019 | Duration: | 90 mins | Max Marks: | 50 | Sem: | IV | Branch: | n: ISE | | | | | |
| | Answer Any FIVE FULL Questions | | | | | | | | | | | | | |
| | | | | | | | | | | О | BE | | | |
| | | | | | | | | | Marks | СО | RBT | | | |
| 1 a) | Explain package and its type and import command in Java with example | | | | | | | [06] | CO3 | L2 | | | | |
| b) | Write a Java program for illustrating the exception handling when the number is divided by zero | | | | | | | umber is divided | [04] | CO3 | L2 | | | |
| 2 a) | | | | | | | | [07] | CO3 | L3 | | | | |
| b) | What is the importance of finally block? | | | | | | | | [03] | CO3 | L2 | | | |
| 3a) | Define the concept of multithreading in Java and explain the different phases in the life cycle of thread, with a neat sketch | | | | | | | hases in the life | [06] | CO4 | L2 | | | |
| b) | Explain keyEvent class with example | | | | | | | | [04] | CO4 | L3 | | | |
| 4 a) | Elucidate the two ways of making a class threadable, with examples | | | | | | | | [07] | CO4 | L3 | | | |
| b) | What is synchronization? When do we use it? | | | | | | | | [03] | CO4 | L2 | | | |
| 5 a) | Explain delegation event model used to handle events in Java | | | | | | | | [06] | CO4 | L2 | | | |
| b) | Explain inner class with example | | | | | | | | [04] | CO4 | L3 | | | |
| 6 a) | What are two types of applets? Explain the skeleton of an applet | | | | | | | | [06] | CO5 | L2 | | | |
| b) | Explain getDocumentBase and getCodebase in applet class | | | | | | | | [04] | CO5 | L3 | | | |

7 a) Explain the role of synchronization in producer consumer problem with example [10] CO4

CO's to PO's & PSO's mapping

Name of the course : **Object Oriented Concepts (17CS42)** Sub Code : 17CS42 Name of the Faculty/s : Mrs. Shilpa Pande Sem & Sec : 4th

| | Course Outcomes | Modules | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | P09 | PO10 | P011 | P012 | PSO1 | PSO2 | PSO3 | PSO4 |
|---|---|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|
| CO1 | To get the knowledge of principles and practice of object oriented analysis and design in the construction of robust, maintainable programs | 1 | 3 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 1 | 0 | 0 | 0 |
| CO2 | Applying object oriented concepts to design, write, compile, test and execute Java programs | 2 | 3 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 3 | 2 | 0 | 1 | 0 |
| CO3 | Exemplify the usage of Inheritance, Interfaces, Packages, and Exceptions | 3 | 3 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 3 | 1 | 0 | 0 | 0 |
| CO4 Implement the concept of Multithreading and Event Handling. | | 4 | 3 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 3 | 2 | 0 | 0 | 0 |
| CO5 | Designing and Implementing Applets and Swings | 5 | 3 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 3 | 2 | 0 | 0 | 1 |

| COGNITIVE LEVEL | REVISED BLOOMS TAXONOMY KEYWORDS |
|--------------------|---|
| L1 | List, define, tell, describe, identify, show, label, collect, examine, tabulate, quote, name, who, when, where, etc. |
| L2 | summarize, describe, interpret, contrast, predict, associate, distinguish, estimate, differentiate, discuss, extend |
| L3 | Apply, demonstrate, calculate, complete, illustrate, show, solve, examine, modify, relate, change, classify, experiment, discover. |
| L4 | Analyze, separate, order, explain, connect, classify, arrange, divide, compare, select, explain, infer. |
| L5 | Assess, decide, rank, grade, test, measure, recommend, convince, select, judge, explain, discriminate, support, conclude, compare, summarize. |

| | COR | RELATION LEVELS | | | | | | |
|------|---|-----------------|--------------------------------|--------------------|-------------------|--|--|--|
| PO1 | Engineering knowledge | PO7 | Environment and sustainability | 0 | No Correlation | | | |
| PO2 | Problem analysis | PO8 | Ethics | 1 Slight/Low | | | | |
| PO3 | Design/development of solutions | PO9 | Individual and team work | 2 Moderate/ Medium | | | | |
| PO4 | Conduct investigations of complex problems | PO10 | Communication | 3 | Substantial/ High | | | |
| PO5 | Modern tool usage PO11 Project management and finance | | | | | | | |
| PO6 | The Engineer and society PO12 Life-long learning | | | | | | | |
| PSO1 | Design, implement and maintain business applications in a variety of languages using libraries and frameworks. | | | | | | | |
| PSO2 | Develop and simulate wired and wireless network protocols for various network applications using modern tools. | | | | | | | |
| PSO3 | Apply the knowledge of software and design of hardware to develop embedded systems for real world applications. | | | | | | | |
| PSO4 | Apply knowledge of web programming and design to develop web based applications using database and other technologies | | | | | | | |