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GOPAL GOVIND POY RAITURCAR COLLEGE OF COMMERCE AND ECONOMICS, FARMAGUDI, PONDA-GOA

B.C.A. CBCS (SEMESTER-III) REGULAR EXAMINATION, NOVEMBER 2023

OBJECT ORIENTED CONCEPTS

Duration: 2 hours **Total Marks: 60**

Instructions*: i) All questions are compulsory.*
ii) Figures to the right indicate full marks.

Q.1.A. Select the correct option and rewrite the statement. **(5x1=05)**

i. It is used by any function at any time while local variables are only used within the function____.
ii. The exception used when a thread has been interrupted _____.
iii. It holds the attributes that helps in describing the properties of the entity that is_____.
iv. Illegal operation performed which results in the abnormal working of the program_____.
v. Mechanism which facilitates you to reuse the fields and methods of the existing class_____.

B. Answer the following. **(5x1=05)**

i. What is Destructor?
ii. What is Runtime Error?
iii. What is Throwable class in Java?
iv. What is Nested try?
v. What is Visibility in Class diagram?

Q.2. A. What is Data Encapsulation? **(02)**
B. Distinguish between POP and OOP? **(03)**
C. Write a program on Inheritance in class? **(05)**

Q.3. A. Explain the perspective of class diagram? **(02)**
B. Explain the relationship in class diagram? **(03)**
C. Draw a class diagram for library management system? **(05)**

Q.4. A. Explain When to use a Use Case diagram? **(02)**
B. Explain Activity diagram with example? **(03)**
C. Draw a sequence diagram for leave approval example? **(05)**

Q.5. A. Explain Copy Constructor? **(02)**
B. Write about the two types of constructors? **(03)**
C. Write a program on method overloading for changing number of arguments? **(05)**

Q.6. A. Explain the usage of throw statement? **(02)**
B. Explain the three types of Inheritance? **(03)**
C. Explain the Exception hierarchy in detail? **(05)**

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