

School of University Polytechnic**Diploma in Computer Science and Engineering
Semester End Examination - Jun 2024****Duration : 180 Minutes
Max Marks : 100****Sem IV - N1DF401C - DPCS2018- Programming with Java***General Instructions**Answer to the specific question asked**Draw neat, labelled diagrams wherever necessary**Approved data hand books are allowed subject to verification by the Invigilator*

- 1) Recall the difference between = and ==. K1(2)
- 2) Explain the concept of exception handling. K2(4)
- 3) Explain wrapper class in java. K2(6)
- 4) Implement a class Employee with the following data members Emp_id, name and salary and display() member function. Create three objects of this class and display their details. K3(9)
- 5) Implement a class Complex with data members real and imaginary. Also create member functions showComplex() and addComplex(). showComplex():- Displays the complex number. addComplex():- Adds two complex number. K3(9)
- 6) Evaluate the role of looping statements in programming. Write a java program to print the following pattern:- K5(10)

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- 7) Differentiate between method overloading and method overriding. K4(12)
- 8) Evaluate all the types of constructor in java. K5(15)
- 9) Examine the role of the following keywords:- K5(15)
 1. this
 2. super
 3. import
 4. implements
 5. extends
- 10) Create a class Book with data members book_id,book_name, author_name and book_price. Also create member functions :- K6(18)
 1. input() :- to input book details.
 2. display():- to display the book details.
 3. check():- to check whether the book name starts with 'A' or not