

Question Paper



MANIPAL UNIVERSITY

SCHOOL OF INFORMATION SCIENCES

FIRST SEMESTER Master of Engineering - ME (MEDICAL SOFTWARE / EMBEDDED SYSTEMS)

DEGREE EXAMINATION - NOVEMBER 2017

DATE : Thursday, November 16, 2017

TIME : 10:00AM - 1:00PM

Database Programming in Java [MMS 613]

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) a) What are the unique advantages of object-oriented programming paradigm? (5 marks) (10)
b) Write a short note on Objects and classes as applied to OOP. (5 marks)
- 2) List and explain five features of Java (10 marks) (10)
- 3) a) Write a short note on java's Type Conversion and Casting. (4 marks) (10)
b) List and explain different selection statements available in java. (6 marks)
- 4) Discuss the following: (10)
a) Java's Access Control mechanism (5 marks)
b) Different ways of argument passing in function call (5 marks)
- 5) What is dynamic method dispatching? Illustrate with an example. (10 marks) (10)
- 6) Explain with an example various steps involved in creating a GUI (10 marks) (10)
- 7) What are the different types of database end users? Discuss the main activities of each end users (10 marks) (10)
- 8) Explain in detail the steps involved in Database design process (10 marks) (10)
- 9) With neat diagram explain types of JDBC (10)

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(10 marks)

- 10) a) Explain briefly the SELECT structure of SQL queries and its various clauses with a suitable example. (10 marks) (6 marks)
- b) Discuss the following features of SQL
- i) Substring comparison
 - ii) Ordering
- (2 x 2 marks)

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