

Question Paper

Exam Date & Time: 25-Jun-2022 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal School of Information Sciences, Manipal
Second Semester Master of Engineering - ME (Embedded Systems) Degree Examination - June 2022
Embedded Software Design [ESD 5203]

Marks: 100

Duration: 180 mins.

Saturday, June 25, 2022

Answer all the questions.

- 1) Explain A. Abstraction B. ENCAPSULATION with examples. (10)
(TLO3.2) (10 Marks)
- 2) Explain the concept of Polymorphism with examples. (TLO3.2) (10)
(10 Marks)
- 3) Explain the concept of LAMDA Functions in JAVA with (10)
example. (TLO3.2) (10 Marks)
- 4) Explain the static method, block and variable in JAVA. (10)
(TLO3.1) (10 Marks)
- 5) What is UML? Explain the CLASS diagram concept with (10)
example. (TLO1.2) (2+8=10 Marks)
- 6) With a neat diagram, explain the TCP client - server example (10)
in JAVA. (TLO3.2) (10 Marks)
- 7) Explain the following classes with examples A. FileWriter B. (10)
FileReader C. FileOutputStream D. FileInputStream E. File
(TLO3.2) (2*5=10 Marks)
- 8) Explain A. Throw vs Throws B. Final vs Finalize vs Finally. (10)
(TLO3.2) (5+5=10 Marks)
- 9) With a neat diagram, explain AGILE Model. (TLO4.1) (10) (10)
Marks)
- 10) With a neat diagram, explain the Software Defined Life Cycle. (10)
(TLO1.1) (10 Marks)

-----End-----