RND2255CE/IT

J & K BOARD OF TECHNICAL EDUCATION

Semester: 5th Branch: Computer Engineering/IT Subject: Java Programming Scheme: New Time: 3 Hrs Session: ND22 M.M.: 100 Note:- Attempt any five Questions. All Questions carry equal marks

Q10. Explain the concept of JDBC (Java Data Base Connectivity)?

a) Briefly explain the features of Java. QZ. [10] b) What is JVM and JIT? Explain. [10] Q2. Explain the concept of control flow statements with the help of an example in [20] Briefly explain the concept of Memory Management in Java? Q3. [20] Q4. Explain: a) Inheritance b) Encapsulation c) Polymorphism d) Constructors [20] QS. Briefly explain the concept of Java Packages? [20] Q6. Briefly explain the concept of Multi-Threading in Java? [20] Q7. What do you understand by Synchronization? Briefly explain the life cycle of a thread? [20] What are exceptions? Briefly explain the concept of exception handling in Q8. [20] a) Draw a comparison between C and C++. [10] Q9. b) What do you understand by command line arguments. [10]

[20]

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Semester: 5th Branch: Computer Engineering/IT Subject: Internet and Web Technologies Scheme: New M.M.: 100 Time: 3 Hrs Session: ND22 Note:- Attempt any five Questions. All Questions carry equal marks Explain: QI. (20) b) FTP a) E-mail Explain: (20) b) RF Link a) ISDN Explain: Q3. b) Search Engines a) Proxy Servers (20) d) Hyper Links c) URL (20) Explain SSL in detail? What do you understand by firewall? What are the types of firewall? Explain? (20) Explain: b) Image files a) Image map (20) d) Frames c) Style sheet What do you understand by Server-Side Scripting? Explain briefly? (20) Q7. What do you understand by dream weaver? Explain its basic features? Q8. What do you understand by Document Object Model (DOM)? Explain? Q9. Q18. Explain with the help of a suitable diagram the process of encryptions and decryption?



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Semester: 5th Branch: Computer Engineering
Subject: Wireless Communication (Elective-I) Scheme: New
Time: 3 Hrs Session: ND22 M.M.: 199

Note:- Attempt any five Questions. All Questions carry equal marks

Q1. Explain: (20) b) EDGE Technology a) Paging Systems Q2. Explain: a) Frequency Reuse b) Handoff Strategies (20) Q3. Explain: (20) b) TDMA a) FDMA Q4. What do you understand by Amplitude modulation, angle modulation, digital modulation? Explain? Q5. Briefly explain the fundamentals of Channel Coding? (20) Briefly explain the differences between wireless and fixed telephone Q6. networks? Q7. Briefly explain ISDN in Wireless Networking? (20) Q8. Briefly explain GSM architecture? Q9. Briefly explain the concept of CDMA digital cellular standard in wireless systems? Q10. Explain: (20) b) UMTS a) Bluetooth

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RND2255CE

Semester: 5th			
Subject: Computer	Peripheral	and Interfacing	,

Branch: Computer Engineering Scheme: New

Time: 3 Hrs

Session: ND22

M.M.: 100

Note:- Attempt any five Questions. All Questions carry equal marks.

Q1. Briefly explain the working of CRT?

(20)

- Q2. Point out the main differences between raster scan and vector graphics?

 Mention few advantages of raster scan and vector graphics? (20)
- Q3. What do you understand by pipelining? What do you understand by RISC & CISC? Briefly explain?
- Q4: What do you understand by impact and non impact pointers? Briefly explain the principle and working of inkjet printer? (20)
- Q5. What do you understand by SMPS? Briefly explain? . (20)
- Q6. What is BIOS? Explain various functions of BIOS? (20)
- Q7. Explain:
 - a) Digital Camera
- b) Web Camera
- (20)
- Q8. What do you understand by Memory Hierarchy? Briefly explain? (2
- (20)

- Q9. Explain:
 - a) EIDE

b) SATA

c) SCSI

d) SAS

(20)

- Q10. Explain:
 - a) Cache Memory
- b) Virtual Memory

(20)

BN02255CE J & K BOARD OF TECHNICAL EDUCATION Branch: Computer Engineering Semester: 5th Scheme: New Subject: Advance Data Base Management System M.M.: 100 Time: 3 Hrs Session:ND22 Note:- Attempt any five Questions. All Questions carry equal marks. Q1. What do you understand by DATA Independence? Briefly explain the concept of Normalization? What do you understand by Data Models? Explain? What do you understand by Distributed databases? What are the various types of distributed database systems? Q4. Explain: b) Scalar functions with respect to DDL a) Data definition language d) Aggregate functions w.r.t DDL (20) c) Null values w.r.t DDL Q5. What do you understand by Data Manipulation language? Explain the working of a join operator with the help of an example? Explain the concept of Triggers? What do you understand by Indexes? What are the advantages and (20) disadvantages of views? Explain the terms given below with the help of examples: a) Try and Catch Statements b) If Statement & While Statement (20)

Explain:

a) Object Definition Language.
 c) Object Relational Systems

b) Object Query language (20) d) SQL3

Q10. What do you understand by backup & recovery with respect of installation of SQL server? Also explain steps to install SQL Server?