MJ-22

JAMMU & KASHMIR BOARD OF TECHNICAL EDUCATION

Subject: Artificial Intelligence (Elective-II)   Semester: 6th   Branch: Information Tech.
Scheme: New   M. Marks: 100   Time: 03 Hours

Instructions:
1. Attempt any Five Questions.
2. Figures to the right indicate marks.

Q1.   What do you understand by an Expert Systems and Natural Language Understanding? [20]

Q2.   Define the Term AI and describe its various application in the field of present world? [20]

Q3.   Define and explain Distributed Artificial Intelligence? [20]

Q4.   Explain in details Minimax Search algorithm with an Example? [20]

Q5.   What is knowledge, explain various methods of Knowledge representation? [20]

Q6.   What are the various issues and applications of Artificial Intelligence in Games? [20]

Q7.   Define and Explain Hill climbing and best first search with Example? [20]

Q8.   Describe the different components of Robotics System? [20]

Q9.   What is the role of Expert Knowledge in Artificial Intelligence? [20]

Q10.   Explain the Following:

   a) Structure of a Prolog Program
   b) Data Types of Prolog Programming   [20]

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Subject: Visual Programming Using .Net   Semester: 6th   Branch: Information Tech.

Scheme: New   M. Marks: 100   Time: 03 Hours

Instructions:

1. Attempt any Five Questions.
2. Figures to the right indicate marks.

Q1. Explain in details the .NET Framework Architecture along with its Features and applications? [20]

Q2. What are the various components of .NET framework Architecture? [20]

Q3. Explain in detail the 3-Tier Client Server Architecture? [20]

Q4. What are Variables and how they can be created in .NET? Explain the different types of Data Types available in .NET? [20]

Q5. Explain the different types of Operators available in .NET with Example? [20]

Q6. Explain in detail the various built-in Dialogs available in VB.NET? [20]

Q7. Explain in detail the ADO.NET Object Model and its components? [20]

Q8. What is Web Services and describe the Components SOAP, UDDI and WSDL? [20]

Q9. What is an Exception and how does exception handling work in .NET? [20]

Q10. Explain the following in details:

    a)   Data Validation

    b)   Data Grid View

    c)   Data Adapters

    d)   Crystal Reports [4x5]

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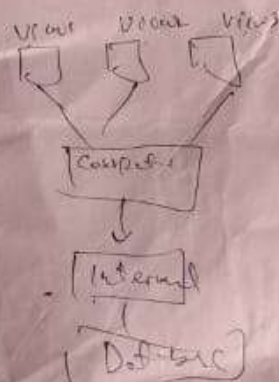
Subject: Advance Database Management System

Semester: 6th

Branch: Information Tech.

Scheme: New   M. Marks: 100   Time: 03 Hours

Instructions:

1. Attempt any Five Questions.
2. Figures to the right indicate marks.

Q1.   Define Data Base and List the different advantages of Data Base System?   **[20]**

Q2.   Explain Normalization in detail, what are the different types of Normalization methods?

[20]

Q3.   What do you mean by Data Models? Explain the various data models?   **[20]**

Q4.   Define SQL and Explain the various Data Bases in SQL?   **[20]**

Q5.   What is Loop and its different types of Loop explain with Example?   **[20]**

Q6.   What do you mean by the term Index? Explain single Column Indexes and Unique Indexes in detail?   **[20]**

Q7.   What is Join? Explain the various types of Joins?   **[20]**

Q8.   Explain in details the If STATEMENT, WHILE STATEMENT and TRY and CATCH STATEMENT?   **[20]**

Q9.   Explain the following Commands:
a. Insert
b. Alter
c. Merge
d. Select   **[4x5]**

Q10.   Define the Following:
a. Trigger
b. Query
c. How we can create and use Trigger
d. Grant and Revoke Statement   **[4x5]**

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JAMMU & KASHMIR BOARD OF TECHNICAL EDUCATION

Subject: Mobile Computing
Scheme: New

Semester: 6th
M. Marks: 100

Branch: Information Tech.
Time: 03 Hours

Instructions:
1. Attempt any Five Questions.
2. Figures to the right indicate marks.

Q1. Describe the security services that are offered by GSM? [20]

Q2. Explain the techniques for improving coverage and capacity in cellular systems? [20]

Q3. Explain in detail the Mobile Computing Architecture? [20]

Q4. What do you mean by Mobile Computing, Explain the various advantages of Mobile Computing? [20]

Q5. Explain the various Mobile Technologies available in the market? [20]

Q6. What do you mean by the term WiMAX, explain the various features of WiMAX? [20]

Q7. Explain in detail the Wireless Application Protocol (WAP), also discuss its application, advantages and disadvantages? [20]

Q8. Explain in detail the various Operating Systems for Mobile Devices.? [20]

Q9. Explain in the term J2ME Technology and its working in detail? [20]

Q10. Explain the Following?
a. WAP   b. MMS   c. RFID   d. IPv6   [20]

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JAMMU & KASHMIR BOARD OF TECHNICAL EDUCATION

Subject: Basics of Management
Scheme: New

Semester: 6th
M. Marks: 100

Branch: Information Tech.
Time: 03 Hours

Instructions:
1. Attempt any Five Questions.
2. Figures to the right indicate marks.

Q1.   Define Management. Explain briefly the functions of management?   (20)

Q2.   Define Leader. Discuss the various qualities of good Leader?   (20)

Q3.   Explain briefly the Methods of motivation?   (20)

Q4.   Write a shot note on Maslow's Need Hierarchy theory of motivation?   (20)

Q5.   Discuss the importance of Human Resources Management?   (20)

Q6.   Discuss in detail the silent features of Minimum wages Act 1948?   (20)

Q7.   Define Marketing & sales and write down its importance & functions?   (20)

Q8.   Write a short note on the following:
      a) JIT concept
      b) Need of Professional Ethics.   (20)

Q9.   Define CRM (Customer Relationship Management) its need and explain their types?
                                                                                              (20)

Q10. Write a short note on functions and objectives of Material and Store Management?
                                                                                              (20)