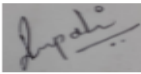## NOTICE

Date: 12-05-2023

B.Sc. (Information Technology)

ATKT Internal/Practical Examination May2023
Semester V

INSTRUCTIONS FOR THE STUDENTS HAVING ATKT

IN INTERNALS / PRACTICALS

1. The viva voce will be conducted offline.

2. Date of Submission of the Project 27-5-23 at 11 am in the computer lab.

3. Students must write their Internal ATKT project in their own handwriting on A4 size foolscap paper. On top of every page a student has to write his/her Complete Name, Program (Dept.), Semester, Roll no.,Class and Contact No.

4. Student has to attach a photocopy of questions allotted to him/her along with his answers.

5. Students have to attach an ATKT fee payment receipt along with his/her project.

6. On the date of submission, there will be a viva voce for which the student has to present himself/herself, failing which he/she will be marked absent.

7. Submissions after the above mentioned date and time will not be accepted and entertained under any circumstances.

Note: For any query mail to: bscit@dalmialionscollege.ac.in

Prof.Rupali Mishra	Prof. Durgesh Kenkre	Prof. Subhashini Naikar	Dr. Kiran Mane
(Coordinator)	(Exam convener)	(Vice- Principal, SFC)	(I/c Principal)

DI/R-IPS/EXAM/00

Semester V

Subject :Project Dissertation (Practical)
Note : Bring your project dissertation on the day of exam.

Name of the Student
SHARMA SAGAR PRADEEP ● Bring your project dissertation on the day of the exam.

Subject :Advanced Web Programming (Internal)

Name of the Student
GUPTA ROHAN GANGAPRASAD 1. What is .NET Framework? Explain its architecture with help of diagram. 2. Explain CLR in detail. 3. What is namespace? How to create namespace and alias? 4. Explain different types of data types in C#. OR Explain primitive and nonprimitive data types in C#
LAD OMKAR PRADEEP 1. Explain the implicit and explicit conversion of data types with examples 2. Explain Boxing and Unboxing with reference to value type and reference type. 3. List and explain the comparison and logical operators in C#. 4. Explain flow control, explain what is break and continue statement
SHAIKH SAHIL AHMED 1. Give general form of switch statement. Explain with example. 2. Give syntax of foreach loop. Explain with example. 3. Difference between for and foreach loop 4. Explain variable sized array with suitable example. OR Explain jagged array with example.
SINGH ABHINAV RANAPRATAP 1. Explain ref parameter and out parameter 2. Is Multiple Main () allowed in C#? Justify 3. Need of enumerator data type in C# 4. Explain inheritance and polymorphism.
SINGH PRIYANSH HARIPRATAP 1. What are sealed classes and sealed methods? Why are they used? 2. What are the rules in defining a constructor? Explain static constructor with example. 3. Explain various Types of Constructors in C# 4. How multiple inheritance achieved using interfaces?
YADAV ABHISHEK SURENDRA 1. When is explicit interface necessary? 2. Explain the similarities and differences between Interfaces and Abstract classes 3. Explain method overriding with example 4. Differentiate Overloading and Overriding

Subject :Artificial Intelligence (Internal)

Name of the Student
SHAIKH SAHIL AHMED a. What is Artificial Intelligence? State its applications b. Discuss Turing test with Artificial Intelligence approach. c. What are agents? Explain how they interact with environment. d. What is rational agent? Discuss in brief about rationality.
SINGH ABHINAV RANAPRATAP a. Discuss in brief the formulation of single state problem. b. Give the outline of Breadth First Search algorithm. c. Give the outline of tree search algorithm. d. Explain the mechanism of genetic algorithm.
SINGH PRIYANSH HARIPRATAP a. Explain the working mechanism of min-max algorithm. b. Explain in brief about resolution theorem. c. Write a note on Kriegspiel's Partially observable chess. d. Explain in brief about knowledge base agent.
YADAV ABHISHEK SURENDRA a. What is planning? Explain STRIPS operators with suitable example. b. Explain in brief about partially ordered plan. c. Explain in brief about hierarchical planning. d. Write a note on mutex relation.

Subject :Enterprise Java (Internal)

Name of the Student
GUPTA ROHAN GANGAPRASAD 1. Explain enterprise java application and it's architecture? 2. Write a short note on enterprise edition? 3. Explain the enterprise bean architecture? 4. Write a note on JNDI namespace in java EE
SHAIKH SAHIL AHMED 1. List and Explain various advantages provided by Object Relational Mapping. 2. Write a note on Java Persistence API. 3. What are session beans? explain its various types? 4. Explain different elements in JSP?
SINGH ABHINAV RANAPRATAP 1. Write in detail lifecycle of JSP Page? 4. Explain in detail architecture of JSP? 2. Explain different types of directives in JSP? 3. Explain in detail http.Servlet.class with eg? 4. Explain lifecycle of a servlet?
SINGH PRIYANSH HARIPRATAP 1. Explain java application technology or java enterprise evolution? 2. What is glassfish server and its uses? Explain. 3. Explain different types of cookies? 4. Explain the advantages of using servlet?
YADAV ABHISHEK SURENDRA 1. what are cookies. Write a short note on cookies? 2. Explain generic servlet class in java? 3. Explain the application of requestDispatcher interface? 4. Write a short note on JSP technology?

Subject : Internet Of Things (INTERNAL)

Name of the Student

LAD OMKAR PRADEEP
    1.   Define Internet Of Things (IOT). Explain any 5 Flavor of IOT.
    2.   Explain the advantages & disadvantages of an IOT.
    3.   What is Internet Of Things? Explain the application of IOT.
    4.   What is IOT Components? Explain each in details.

SHAIKH SAHIL AHMED
    1.   Explain calm and ambient technology.
    2.   What do you mean by magic as metaphor?
    3.   Who invent the Wheredial? Explain the working of Wheredial.
    4.   How to keep or maintain privacy of IOT devices?

SINGH ABHINAV RANAPRATAP
    1.   Explain TCP/IP protocol suite with diagram.
    2.   Explain the role of UDP and MAC Address in IOT.
    3.   What is the use of IPv6 in IOT? Explain its Power and Conclusion also.
    4.   What do you mean by HTTP ports? List out other common ports.

SINGH PRIYANSH HARIPRATAP
    1.   Explain the basic guidelines of prototyping.
    2.   What is Sketching? Explain its benefits.
    3.   Describe the term Familiarity.
    4.   Describe the relationship between the cost of prototyping and mass producing.

YADAV ABHISHEK SURENDRA
    1.   Explain the features of IOT.
    2.   Explain The Technology of Internet of Things.
    3.   What do you mean by Enchanted Objects? Explain.
    4.   Who is Making Internet of Things? Justify it.

YADAV ASHISH UMASHANKAR
    1.   Explain Raspberry Pi Model B. What are the things need to be considered for developing on the Raspberry Pi?
    2.   Why the python is the first choice for the Raspberry Pi language than C or C++?
    3.   Give the difference between Arduino Due & Raspberry Pi Model B.
    4.   Explain BeagleBone Black. What are the things need to be considered for developing on the BeagleBone Black?