

ALAGAPPA UNIVERSITY

[Accredited with 'A+' Grade by NAAC (CGPA:3.64) in the Third Cycle and Graded as
Category-I University by MHRD-UGC]

(A State University Established by the Government of Tamil Nadu)

Karaikudi. 630003.

Centre for Distance and Online Education

CONTINUOUS INTERNAL ASSESMENT (CIA)

ASSIGNMENT QUESTIONS



PROGRAMME CODE: 313

Learning Centre : Karaikudi (100)

M.Sc (Information Technology)

(2018 - 2019)



ALAGAPPA UNIVERSITY, KARAIKUDI
CENTRE FOR DISTANCE AND ONLINE EDUCATION
CONTINUOUS INTERNAL ASSESSMENT (CIA)
 (2018-2019 Academic Year Onwards) - ASSIGNMENT QUESTIONS
Learning Centre : Karaikudi (100)



Programme code	Programme Name	Semester
313	M.Sc (INFORMATION TECHNOLOGY)	I

Instructions

- *Assignments should be written in the candidate's own handwriting in the A4 sheets on only one side of the paper.*
- *Combine all course assignments (Theory and Practical) into a single spiral Binding.*
- *Maximum. Marks. 25 for each Course (Theory and Practical).*
- *Model Practical Test will be conducted during PCP schedule for Practical courses every semester.*

The list of assignment topics for each course is furnished below:

Course Code : 31311	Computer Organization and Architecture
1. What are the different types of basic gates? 2. What are the types of combinational circuits? 3. Explain about J-K flip flop with the help of diagram. 4. Briefly explain about various storage devices.	

Course Code : 31512	Object Oriented Programming and Java
1. Explain about the basic concepts of Object-Oriented Programming. 2. Discuss about multi-threading concept in Java. 3. Write short note on: Applets and Interfaces 4. Elucidate about creating and accessing packages.	

Course Code : 31313	Data Structures and Algorithms
1. Define Data Structure. What are its types? 2. Briefly explain about searching of elements using Linear Search Technique 3. Explain about sorting of numbers using Bubble sort algorithm. 4. Discuss in detail about implementation of queue or stack with example.	

Course Code : 31314	Object Oriented Programming and Java Lab
<i>Write Aim, Algorithm, Source code, Input, output and result;</i>	
1. Write a Java program to create a thread by extending the thread class. 2. Write a Java applet program to draw 3D rectangle and square. 3. Write a Java code to illustrate single inheritance.	

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Programme code	Programme Name	Semester
313	M.Sc (INFORMATION TECHNOLOGY)	II

Instructions

- *Assignments should be written in the candidate's own handwriting in the A4 sheets on only one side of the paper.*
- *Combine all four course assignments into single binding for submission.*
- *Model Practical Test will be conducted during PCP schedule for Practical courses of every semester.*
- *Maximum. Marks. 25 for each Course (Theory and Practical).*

The list of assignment topics for each course is furnished below:

Course.code: 31321	Data Mining and Warehousing
1. Explain the life cycle of data mining with neat diagram. 2. Briefly explain about Apriori algorithm. 3. Discuss about Bayesian classification algorithm with example.	

Course.code: 31322	Relational Database Management System
1. With neat diagram explain the architecture of DBMS. 2. Discuss in detail about various forms of normalization. 3. Explain about various Data Manipulation Language(DML) Statements with examples.	

Course.code: 31323	Visual Programming with .NET
1. Explain the different types of branching statements and loops along with their syntax. 2. Write the syntax for creating class. 3. Explain how you will create an event and delegate.	

Course .code:31324	VB.NET and RDBMS Lab
Write aim, algorithm, Source code, Input and Output; 1) Write a VB.NET program to generate the factorial of a given number. 2) Write a VB.NET program to create an Advertisement using Ad rotator. 3) (a) Create table <i>student</i> with the following fields; <div style="text-align: center;"> $student(regno,name,mark1,mark2,mark3,total,result)$ </div> <ul style="list-style-type: none"> • Write SQL query to insert 5 records • Write SQL query to calculate total = mark1+mark2+mark3 • Write SQL query to update result field with 'PASS' if total >= 150 otherwise 'FAIL' (b) Design and develop an application using PL/SQL for student mark processing.	

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Programme code	Programme Name	Semester
313	M.Sc (INFORMATION TECHNOLOGY)	III

Instructions

- *Assignments should be written in the candidate's own handwriting in the A4 sheets on only one side of the paper.*
- *Combine four course assignments into single spiral binding for submission.*
- *Maximum. Marks. 25 for each Course (Theory and Practical).*
- *Model Practical Test will be conducted during PCP schedule for Practical courses every semester.*

The list of assignment topics for each course is furnished below:

Course Code : 31331	Open source software
<ol style="list-style-type: none"> 1. Explain briefly about open sources and its advantages? 2. Elucidate about Python tuple functions with example. 3. Mention the use of SELECT statement and also Mention it clauses in MySQL. 	

Course Code : 31332	Operating system
<ol style="list-style-type: none"> 1. What is deadlock? Explain the dead lock avoidance with Bankers algorithm. 2. Briefly explain about priority scheduling. 3. Explain round robin scheduling algorithm. 	

Course Code : 31333	Computer Networks
<ol style="list-style-type: none"> 1. Explain various components computer networks. 2. Discuss about the network topology with neat diagrams. 3. Explain about the working method of OSI reference model with neat sketch. 	

Course Code : 31334	Open source Lab
<i>Write Aim, Algorithm, Source code, Input, output and result;</i>	
<ol style="list-style-type: none"> 1. Write a Python program to display numbers from 1-20 using for loop. 2. Design a PHP code to display a web page of student profile. 3. Write a shell program to swap two numbers. 	

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Learning Centre : Karaikudi (100)



Programme code	Programme Name	Semester
313	M.Sc (INFORMATION TECHNOLOGY)	IV

Instructions

- *Assignments should be written in the candidate's own handwriting in the A4 white sheets on only one side of the paper.*
- *Combine four course assignments into single spiral binding for submission.*
- *Maximum. Marks. 25 for each Course (Theory and Practical).*
- *Model Practical Test will be conducted during PCP schedule for Practical courses every semester.*

The list of assignment topics for each course is furnished below:

Course Code : 31341	Web Technology
	1. Explain about list tags in HTML. Give examples. 2. Discuss in detail about the life cycle of servlet with neat diagram. 3. Briefly explain about MVC architecture.

Course Code : 31342	Software Engineering
	1. Explain in detail about the Water fall model with neat diagram 2. Briefly explain about scenario-based modeling and class-based modelling. 3. What are the approaches for software testing? Explain.

Course Code : 31343	Cloud Computing
	1. What is cloud computing? What are the advantages and disadvantages of cloud computing? 2. Briefly explain about various types of cloud service deployment. 3. Discuss about Collaborating on Group Projects and Events.

Course Code : 31344	Web Technology Lab
	<i>Write Aim, Algorithm, Source code, Input, output and result;</i> 1. Write a HTML code to display simple table using <table> tag with its attributes. 2. Write a code to illustrate external style sheets. 3. Write a servlet code to display ' Hello World'

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