

# **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.**

**Directorate of Distance Education**

**CONTINUOUS INTERNAL ASSESMENT ( CIA )**

**ASSIGNMENT QUESTIONS**



**PROGRAMME CODE : 517**

**DIPLOMA  
IN  
COMPUTER APPLICATIONS**

**(2022 - 2023)**



**ALAGAPPA UNIVERSITY, KARAIKUDI**  
**DIRECTORATE OF DISTANCE EDUCATION**  
**CONTINUOUS INTERNAL ASSESSMENT (CIA)**  
**ASSIGNMENT QUESTIONS**  
**(2020-2021 Academic Year Onwards)**



Programme code	Programme Name	Semester
517	Diploma in Computer Applications	I

**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 assignment subjects (Theory and Practical) 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 topics for assignment for each course is furnished below:

Course code: 51711	PRINCIPLES OF INFORMATION TECHNOLOGY
<ol style="list-style-type: none"> <li>1. Explain about the basic anatomy of computer.</li> <li>2. Discuss in detail about various network topologies (Bus, Star, Ring and Hybrid).</li> <li>3. Briefly explain about memory and its types.</li> </ol>	

Course code: 51712	OPEN SOURCE SOFTWARE
<ol style="list-style-type: none"> <li>1. What are the advantages of open-source software.</li> <li>2. Explain about arrays in PHP with example.</li> <li>3. Write short note on Strings in SQL.</li> </ol>	

Course code: 51713	OFFICE AUTOMATION
<ol style="list-style-type: none"> <li>1. How will you include header and footer in MS word? Give example.</li> <li>2. Explain about formula and functions in MS-Excel.</li> <li>3. Briefly explain about creating tables in MS-Access.</li> <li>4. What are the advantages of Power Point?</li> </ol>	

Course code: 51714	OFFICE AUTOMATION LAB
<p><b>Ms-Word</b> Design a procedure to Prepare your resume with your photograph inserted. Use Table, bullets and different color features.</p> <p><b>Ms-Excel</b> Design a procedure to Create Internal Marks assessment worksheet with the following columns:  REGNO, NAME, SEX, TEST1, TEST2, TEST3, TEST AVERAGE</p> <ol style="list-style-type: none"> <li>i) Add data for 20 students (Test marks are out of 30)</li> <li>ii) Compute TEST AVERAGE as average mark out of three tests.</li> </ol> <p><b>MS-Access</b> Instructions: Write steps to Open a New database and create the following table;</p> <ol style="list-style-type: none"> <li>1) Create employee table with the fields EMPNO, NAME, AGE, SEX, STREET, CITY, PIN, SALARY. <ol style="list-style-type: none"> <li>1. Add data for 20 employees</li> <li>2. Write a query to display all the male employees whose salary is between 1000 and 5000 and living in city "CHENNAI".</li> <li>3. Write a query to display all the female employees whose ages are in the range 50-60</li> <li>4. Show all the records in the table for the city "TRICHY" by filtering.</li> </ol> </li> </ol>	

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Programme code	Programme Name	Semester
517	Diploma in Computer Applications	II

**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 (Theory and Practical) into single spiral binding for submission.*
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The list of topics for assignment for each course is furnished below:\

Course code: 51721	DIGITAL LOGIC FUNDAMENTALS
<ol style="list-style-type: none"> <li>1. Discuss the fundamentals concepts and laws of Boolean Algebra.</li> <li>2. Draw the logic diagram of Half adder.</li> <li>3. Discuss about Sum of Products (SOP) and Products of Sum (POS).</li> </ol>	

Course code: 51722	PROGRAMMING IN C
<ol style="list-style-type: none"> <li>1. What are the data types in C language?</li> <li>2. Explain about looping control statements in C.</li> <li>3. What is pointer? What are its operators?</li> <li>4. Write short note on : Structure and union.</li> </ol>	

Course code: 51723	DATA STRUCTURES AND ALGORITHMS
<ol style="list-style-type: none"> <li>1. Define: Data Structure. What are its types?</li> <li>2. Briefly explain about searching of elements using Binary Search Technique</li> <li>3. Explain about soring of numbers using Bubble sort algorithm.</li> <li>4. Discuss in detail about implementation of stack with example.</li> </ol>	

Course code: 51724	C AND DATA STRUCUTRE LAB
<b>Write Aim, Algorithm, Source code, Input and Output;</b> <ol style="list-style-type: none"> <li>1. Write a C program to check given string is palindrome or not?</li> <li>2. Write a C program to implement the operations of queue.</li> <li>3. Write a C program to sort N given numbers using Bubble sort.</li> </ol>	

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