

No. of Printed Pages : 3 **BCSL-091(SET-I)**

**CERTIFICATE IN MOBILE  
APPLICATION DEVELOPMENT  
(CMAD)**

**Term-End Practical Examination**

**June, 2025**

**BCSL-091(SET-I) : LABORATORY COURSE  
(INTRODUCTION TO DATABASES,  
PROGRAMMING USING PYTHON AND  
INTRODUCTION TO ANDROID)**

*Time : 3 Hours* *Maximum Marks : 75*

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*Note : (i) There are three Sections in this paper.*  
*(ii) Each Section is of 1 hour duration*  
*including the viva-voce.*

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(iii) Each Section carries 20 marks and 5 marks for each Section are for viva-voce.

(iv) Attempt only that Section(s) in which you are not yet successful.

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## Section—A

### (Introduction to Databases)

1. Create a database for job management system, which has the following tables and attributes :

Job (Job\_ID, Job\_Name, Salary, Department\_ID)

Department (Department\_ID, Department\_Name, Manager\_ID)

Input 5 records in to each table and write SQL code for the following queries : 20

- (i) List all the Job details for Department\_ID = '001'.
- (ii) List the name of departments, managed by Manager\_ID = '001'.

**Section—B**  
**(Introduction to Android)**

2. Develop a CALENDAR mobile app for any one month of year 2025. Make assumptions wherever necessary. 20

**Section—C**  
**(Programming Using Python)**

3. Write a program in Python to perform the following :

(i) Find sum of two matrices of order  $2 \times 2$ . 10

(ii) Check if a given year is a leap year or not. 10

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