

MASTER OF SCIENCE (COMPUTER SCIENCE) (CBCS-2018 COURSE)
M.Sc. (Computer Science) Sem-III : WINTER- 2022
SUBJECT : ANDROID PROGRAMMING

Day : Tuesday

Time : 02:00 PM-05:00 PM

Date : 3/1/2023

W-20064-2022

Max. Marks : 30

N.B.

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
-

Q.1 Explain the history of Android operating system. Also explain Android architecture with the help of suitable diagram. **(10)**

OR

Explain method overloading in Java. Define two methods that have same name but different parameter. Also define two methods in class that have identical method names and parameter profile with different return values types.

Q.2 Attempt **ANY TWO** of the following: **(10)**

- a) Explain the concept of polymorphism with suitable example.
- b) Describe activity life cycle.
- c) What is database Helper class in SQLite database? Explain with one example.
- d) Explain any two android development tools.

Q.3 Attempt **ANY TWO** of the following: **(10)**

- a) Explain the advantages of Android operating system.
- b) What is intent? Explain any two types of intents in Android?
- c) What is virtual machine in operating system? Can we run a virtual machine on a phone justify your answer.
- d) Explain inheritance with its types.