

# Question Paper

Exam Date & Time: 27-Nov-2018 (02:00 PM - 05:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

### SCHOOL OF INFORMATION SCIENCES

#### THIRD SEMESTER MASTER OF SCIENCE - M.Sc.(INFORMATION SCIENCE)

#### Mobile Application Development using Android [MIS 605]

Marks: 100

Duration: 180 mins.

#### END SEMESTER DEGREE EXAMINATION NOVEMBER 2018

**Answer all the questions.**

- 1) Explain the following (4+3+3m) (10)  
(a)DVM (b)DDMS (c)ADB
- 2) (a)List the features of Android sdk. (4+4 +2m) (10)  
(b) What is intent and Broadcast Receivers?  
(c) What is SDLC?
- 3) (a)What is SQLite database? Write code for adding, (10)  
updating and removing data from SQLite database. (7+3  
m)  
(b) Explain Content Providers?
- 4) (a)Explain the following layouts (4\*2+2 m) (10)  
(1) Relative Layout (2) Frame Layout (3) Linear Layout (4)  
Table Layout  
(b)What is difference between Error and Exception?
- 5) (a)Explain Activity lifecycle (7+3m) (10)  
(b) What is the difference between Inheritance and  
polymorphism? explain with example
- 6) (a)Create an application that will display toast (Message) (10)  
on specific interval of time. (write java code) (7+3m)  
(b) Explain features of Android.
- 7) (a)What is Framework? Explain Android framework with (10)  
figure. (6+4 m)  
(b)What are background threads in android?
- 8) (a)Explain location based services in android? (6+4 m) (10)  
(b) Explain Android Widgets.
- 9) (a)Explain Kernel layer in Android architecture? (7+3 m) (10)

(b) Explain the structure of Manifest file.

10) Explain Adapters in Android. (10)

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