# GIET UNIVERSITY, GUNUPUR – 765022

M. Tech ( Third Semester – Regular) Examinations, December – 2020

## MPECS 3011 - Mobile Applications and Services

### (CSE)

Time: 2 hrs                                    Maximum: 50 Marks

**The figures in the right hand margin indicate marks.**

## PART – A (2 x 10 = 20 Marks)

Q.1. Answer *ALL* questions

a. List out the factors needed for the development of the mobile applications?

b. What are the features needed for the android environment?

c. Define VUIs?

d. What is Multimodal UI with an example?

e. List the three communication types?

f. What is Android Telephony?

g. List some of the methods need for Location Mobility in Android?

h. Steps needed for the deployment of Data Security mobile agent.

i. List the challenges in Android App Development?

j. List any four Communication protocols?

## PART – B (6 x 5 = 30 Marks)

Answer *ANY FIVE* questions                                   Marks

2. Explain Top level view in android application structure.    (6)

3. Explain the factors needed before developing the mobile application.    (6)

4. Explain the methods needed for content provider class with diagram.    (6)

5. Explain the procedure for creating an alarm to send the notification.    (6)

6. Explain the stack based on function call in android framework.    (6)

7. Explain the Native, Web and Hybrid application based on technology selection for mobile application.    (6)

8. Explain Agent oriented IoT based on modelling and programming paradigm.    (6)

9. Explain the different IoT agent with Real Time application.    (6)

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