**PA-3404**

**[5919]-22**

# M.Sc. (Computer Science)
## CSUT-122 : Mobile Technologies
## (2019 Pattern) (CBCS) (Semester - II) (Credit 4)

*Time : 3 Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

*1) Quetion 1 is compulsory.*

*2) Solve any five of questions from Q.2 to Q.7.*

*3) Questions Q.2 to Q.7 carry equal marks.*

*Q1)* Solve any five of the following :　　　　　　　　　　　　**[10]**

a) State any four application of mobile computing.

b) What are components inside android SDK?

c) Write a short note on R. Java.

d) What are the platforms that phonegap supports?

e) What is X code?

f) List the data types in android SQLite.

*Q2)* Attempt All :

a) Explain following layouts :　　　　　　　　　　　　**[7]**

　　i)　Linear Layout.

　　ii)　Table Layout.

b) What is android OS? Explain its architecture in detail.　　**[5]**

*Q3)* Attempt All :

a) What is intent? Explain in detail.　　　　　　　　　　**[7]**

b) State diff. between JVM vs DVM.　　　　　　　　　　**[5]**

*Q4)* Attempt All :

a) What is parsing? Explain XML parsing with example. **[7]**

b) Explain state of android fragments. **[5]**

*Q5)* Attempt All :

a) Explain Android Activity Life Cycle with example. **[7]**

b) What is phoneGap? Write a 'Hello World' program using phoneGap.
**[5]**

*Q6)* Attempt All :

a) Create android application to do multiply of two numerical digit (xml and java class). **[7]**

b) Write a program swift to print the following out put : Hello world!.
**[5]**

*Q7)* Write short notes on any two of the following : **[12]**

a) Write short note on "Android Minifest".

b) Explain IOS architecture in detail.

c) What is Android Runtime? Explain Android virtual Device?

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