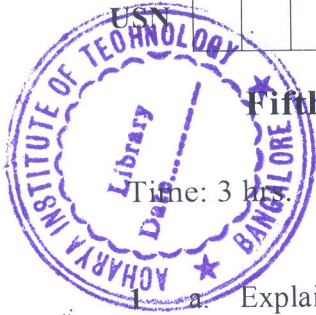


# CBCS SCHEME

16/17MCA53



Fifth Semester MCA Degree Examination, July/August 2021

## Mobile Applications

Max. Marks: 80

Note: Answer any FIVE full questions.

1. a. Explain the hardware and software influenced for cart of development of mobile applications. (06 Marks)  
b. With neat diagrams, explain mobile application users according to Gertalt principles. (10 Marks)
2. a. Draw an architecture diagram of Android operating system. Briefly explain any two layers in detail. (10 Marks)  
b. Articulate your views about mobile phone application usage by children in online education with suitable case studies. (06 Marks)
3. a. Write the snippet code for the two basic views of an android application. (04 Marks)  
b. Write the differences between notification alerts and notification toasts. (06 Marks)  
c. Define Fragment and list types of fragments. (06 Marks)
4. a. With a neat diagram, explain the android activity life cycle. (10 Marks)  
b. Write a Snippet code to illustrate the Action Bar. (06 Marks)
5. a. Design and develop code to create an activity it uses RelativeLayout to provide service for complaint registration. (Use appropriate view or view groups). (08 Marks)  
b. Design and develop code to create an activity form it includes the user preferences selected by user and display the selected preference/s using alert notification. (08 Marks)
6. a. Design and develop code to create an activity it uses TableLayout to provide service for online Fee collection facility (use appropriate view or view groups). (08 Marks)  
b. Write a Snippet code for user view and view groups that leverage evolving mobile device capabilities. (08 Marks)
7. a. Write the procedure for sending an SMS through Android application. (06 Marks)  
b. With a Snippet code, discuss the concept of binding activities to services. (08 Marks)  
c. Name the permission/s needed in AndroidManifest.xml file for sending and receiving SMS messages. (02 Marks)
8. a. Write the steps involved in creating your own customized services with a Snippet code. (08 Marks)  
b. Write a Snippet code for android application to download an image file from the web. (08 Marks)
9. a. How ios phone is different from Android. Justify your answer with at least by discussing 3 features of ios phone. (08 Marks)  
b. Write anatomy structure of an ios App for ios project and explain each component. (08 Marks)
10. a. Draw a neat diagram of ios storyboards where you will have a better conceptual overview of all views and connections between them in the examination feedback application. (08 Marks)  
b. Write the features of windows phone 7 over android phones. (04 Marks)  
c. Why windows phone 7 step back from phone market? Justify your views. (04 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.