

**CERTIFICATE IN MOBILE APPLICATION
DEVELOPMENT (CMAD)**

Term-End Examination

June, 2022

**BCS-091 : INTRODUCTION TO MOBILE
ARCHITECTURE**

Time : 3 hours

Maximum Marks : 75

Note : *Question no. 1 is compulsory. Answer any three questions from the rest.*

1. (a) What are the three types of Mobile App Architectures ? Explain the key differences between them. 10
- (b) List and describe any five features of an Android Operating System. 10
- (c) Explain the features of an ARM processor. Also, briefly explain the ARM architecture. 10
2. (a) Explain the features of Web-based Cross Platform Mobile App Development approach. 10
- (b) List any five features of Xamarin. 5

- 3.** (a) What is a Gyroscope ? Describe any four specifications of a Gyroscope. *10*
- (b) List any five basic specifications of an Accelerometer. *5*
- 4.** (a) What is meant by Virtual Reality ? Write a short note on it. *5*
- (b) What is Dalvik Virtual Machine ? Also, write a short note on Memory Management. *10*
- 5.** (a) Draw and explain high level architecture of an Android App. *10*
- (b) Explain the roles of various layers of a Web Mobile App. *5*
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