BCS-091

CERTIFICATE IN MOBILE APPLICATION DEVELOPMENT (CMAD) (CMAD-BCS-091)

Term-End Examination

June, 2024

BCS-091 : INTRODUCTION TO MOBILE ARCHITECTURE

Time : 3 Hours *Maximum Marks : 75*

Note : Questions No. 1 is compulsory. Attempt any *three* question from the rest.

1. (a) What is Mobile Operating System ? Explain layers of mobile OS. Give two examples each of open and closed mobile OS. 10

   (b) What is Dalvik Virtual Machine ? Also, briefly explain the application priorities and different states of processes. 10

   (c) Explain the design of ×86 processor. How it is different from ARM processor ? 10

P.T.O.

2. (a) List and describe advantages and disadvantages of cross platform mobile app development tools. 8

   (b) Explain the key drivers for mobile applications. Also, briefly explain the impact of mobile apps on various industry verticals and functional domains. 7

3. (a) What is Accelerometer ? Write short note on common types of Accelerometers. 7

   (b) Explain briefly the following wrt Gyroscope : 8

   (i) Shock sustainability

   (ii) Angle Random walk

   (iii) Sensing axes

   (iv) Bias

4. (a) What is ios ? List and describe the features of ios. 10

   (b) What is Game Center ? Describe features of game center. 5

5. (a) Explain the following monetization ways for Android Apps : 10

(i)   Free model

(ii)   Paid model

(iii) Freemium model

(iv)   Affiliate model

(v)   Commission model

(b) Explain the mobile and selection based on business strategy.   5

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