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C16-CM/IT-504

**6628**

**BOARD DIPLOMA EXAMINATION, (C-16)**

**MARCH/APRIL—2021**

**DBME - FIFTH SEMESTER EXAMINATION**

**MOBILE APPLICATION DEVELOPMENT**

*Time : 3 hours ]*

*[ Total Marks : 80*

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**PART—A**

3×10=30

**Instructions :** (1) Answer **all** questions.

(2) Each question carries **three** marks.

(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. Define Mobile application development and list the classification of it.
2. List different peripheral devices in a smart phone.
3. Define System on Chip (SOC). List any two components on it.
4. Draw the block diagram of iOS architecture.
5. What is DVM?
6. List different versions of Android OS.
7. How to create a Toast message?
8. What is the purpose of String.xml?
9. List various user interface layouts used in android applications.
10. What is the use of Toggle button in android application?

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## PART—B

- Instructions :** (1) Answer *any five* questions.  
(2) Each question carries **ten** marks.  
(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. Explain about Modern DSP architecture. 10
12. Explain future technologies in smart phones. 10
13. (a) Draw the block diagram of Android OS architecture. 4  
(b) Explain about Linux kernel layer and system libraries in android architecture. 6
14. Compare iOS and Android OS. 10
15. Explain the android environment setup using Android Studio IDE. 10
16. Explain the following programming components of Android :  
(a) Activity 5  
(b) Broadcast Receiver 5
17. Develop an android application that demonstrates all callback functions. 10
18. Explain about Time picker control with an example program. 10

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