

**TILAK MAHARASHTRA VIDYAPEETH, PUNE**  
**BACHELOR OF COMPUTER APPLICATIONS (B.C.A.)**  
**SPECIALIZATION IN CYBER SECURITY (CS)**  
**EXAMINATION : DECEMBER - 2023**  
**SEMESTER - VI**  
**Sub: Android / Current Trends in IT (CTIT)( BCA-642-18/BCA-642-20) /**  
**Mobile Application Development(BCA-CS-642-20)**

**Date : 27/12/2023**

**Total Marks : 60**

**Time: 2.00 pm to 4.30 pm**

**Instructions:**

1. All questions are compulsory unless and otherwise stated.
2. Bold figures to the right of every question are the maximum marks for that question.
3. Candidates are advised to attempt questions in order.
4. Answers written illegibly are likely to be marked zero.
5. Use of scientific calculators, Log tables, Mollier Charts is allowed.
6. Draw neat and labelled diagrams wherever necessary.

**Q.1. Fill in the blanks.**

**(5)**

1. \_\_\_\_\_ virtual machine is used by the Android operating system
 

a) JVM	b) Dalvik
c) app virtual machine	d) simple virtual machine
2. Android is based on \_\_\_\_\_ language
 

a) C++	b) C
c) python	d) Java
3. APK stands for \_\_\_\_\_
 

a) android phone kit	b) android page kit
c) android person kit	d) android package kit
4. By using \_\_\_\_\_ we can stop the services in android.
 

a) stopself() & stopservice()	b) end()
c) stop()	d) exit()
5. ADB stands for \_\_\_\_\_
 

a) Android debug bridge	b) android delete bridge
c) android deliver bridge	d) android destroy bridge

**Q.2. State True/False.**

**(5)**

1. Manifest file is written in html.
2. First method in activity life cycle called is onStart().
3. Contextwrapper is the parent class of service.
4. OHA stands for Open handset application.
5. Applications are the topmost layer of android architecture.

**Q.3. Answer the following. (Solve any 5) (10)**

1. What are the features of android?
2. What is the significance of SQLiteOpenHelper class?
3. What is service in android?
4. What are the types of intent?
5. Write down the syntax of toast.
6. What are the three types of menus?

**Q. 4. Answer the following in detail. (Solve any 6) (30)**

1. Describe the layers of android architecture.
2. Write a program to display any one menu in android.
3. Explain implicit intent.
4. What is the significance of manifest file and R.java file in android application?
5. Write a program to add any color name from edit text to list view.
6. Explain different components of android.
7. Explain the contents of res folder.

**Q. 5. Answer the following in detail. (Solve any 1) (10)**

1. Explain any 5 views and 5 layouts available in android.
  2. What is activity? Explain life cycle of activity along with the diagram.
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