

Roll No.

Total No. of Questions : 07

Total No. of Pages : 02

BCA (Sem.-6)

ANDROID PROGRAMMING

Subject Code : UGCA-1943

M.Code : 91681

Date of Examination : 04-07-22

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A

1. Write briefly :

- a) Java and JVM
- b) Intent
- c) Security
- d) HTTP
- e) XML
- f) Spinner
- g) Framework
- h) DVM
- i) Android XML
- j) GPS

SECTION-B

2. Discuss the architecture and working of Android Phone.
3. Write a note on Android development environment.
4. Discuss the directory structure of an Android Project.
5. Describe these App components - Intent, Activity and Threads.
6. Develop an App and make use of checkbox and radio buttons.
7. Discuss the process of testing an application.

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BCA (Sem.-6)
ANDROID PROGRAMMING
Subject Code : UGCA-1943
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Date of Examination : 24-04-2024

Time : 3 Hrs.

Max. Marks : 60

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1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A

1. Write briefly :

- a) List various components of a User Interface of an android project.
- b) What is the use of *AndroidManifest.xml* file?
- c) Give an example to use *onStart()* method.
- d) List some characteristics of mobile applications.
- e) What is the use of *RadioGroup* View in Android?
- f) What are the four essential activity states for an android app?
- g) Mention some key design principles for a mobile application development.
- h) Give an example to import packages in a java class file for an android application development.
- i) What do you mean by "Scalability" in mobile applications?
- j) List some advantages of Android operating system.

SECTION-B

2. Discuss various components in the directory structure of a typical Android project.
3. List and discuss various testing methodologies used for mobile applications.
4. Describe architecture and working of Android in detail.
5. What is the benefit of integrating cloud services with Android platform? Explain the integration process in detail.
6. Explain the steps involved in Mobile Software Engineering for mobile applications.
7. Write short notes on :
 - a) Enterprise requirements in mobile applications
 - b) User-interface design for mobile applications.

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2. **SECTION-B** contains **SIX** questions carrying **TEN** marks each and students have to attempt any **FOUR** questions.

SECTION-A

1. Write briefly :

- a) Give name(s) of command line android developer tools.
- b) Give main features of android Graphical Layout editor.
- c) How Map View is used in android application?
- d) How different graphical interface elements are integrated on canvas?
- e) What are the uses of action-bar in android.
- f) Give names of different types of 'dialogue-box' used in android.
- g) Differentiate 'application security' and 'data-security' with android.
- h) How Java API integrated with android stack? Give example.
- i) Give name and usage syntax of four command-line android commands.
- j) How JVM works as a process VM?

SECTION-B

2. How built-in applications are called using intents in android applications?
3. Explain the step-by-step procedure to install and configure android-studio on a Windows machine with complete application directory structure.
4. Explain customizing the actionable items and their applications. Also discuss how actionable items are added to application actionBar?
5. Discuss the android system architecture with its complete directory structure.
6. Explain the creation of a linear layout for user registration and login interface with its component properties.
7. Why android uses virtual machine? How ART and JIT work in virtualization for different system process management? Discuss each in details.

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Date of Examination : 05-05-2025

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Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is **COMPULSORY** consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A

I. Answer briefly :

- a) Explain with example the need and significance of Async tasks.
- b) What is the significance of the term 'interaction among activities'?
- c) Explain explicit intent.
- d) What do you mean by term availability?
- e) Define debugging.
- f) Explain term activity.
- g) Why security feature is required in mobile applications?
- h) What do you mean by default resources?
- i) What is the future of an android OS?
- j) What is the importance of design principles?

SECTION-B

2. What do you mean by enterprise requirements in mobile applications? Explain in detail.
3. Explain characteristics and applications of mobile applications.
4. What do you mean by integrated cloud services? Explain in detail.
5. Explain in detail the architecture of Android OS.
6. Explain white box testing and black box testing with suitable examples.
7. What do you mean by Mobile Software Engineering? Explain in detail.

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