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[Time: Three hours]

[Max. marks:70]

Instructions:

1. All questions are compulsory.
2. Figure to the right indicate full marks.
3. Mention your options clearly.

Student's Signature

- Q.1** Answer the following in detail. (Any seven) **14**
1. What is spectrum?
 2. Define Android runtime.
 3. What is Open Handset Alliance?
 4. Explain the use of the Android Manifest file?
 5. What is Extensible Markup Language?
 6. What do you mean by XML declaration tag?
 7. What is Multiplexing?
 8. Define linear layout.
 9. How to set screen orientation programmatically?
- Q.2** Answer in detail. (Any two) **14**
1. Explain Architecture of Android Operating System.
 2. Write detail note on features of Android.
 3. Explain types of layout and show the example of relative layout.
- Q.3** Answer the following. (Any two) **14**
1. What is activity? Draw and explain the lifecycle of an android activity?
 2. Write a steps to create and run Android app.
 3. Explain root element and case sensitivity in XML.
- Q.4** Answer the following. (Any two) **14**
1. Explain Toggle button and checkbox control with its method.
 2. Explain common attributes of the android widgets.
 3. Explain Wireless Application Protocol in detail.
- Q.5** Do as directed. (Any two) **14**
1. Write short note on characteristics of XML.
 2. Write short note on Dalvik Virtual Machine.
 3. Explain Toast with all possible example.