



GC-076004

Seat No. _____

B.C.A. (Sem. VI) Examination

March - 2019

BCAOE-601 : Mobile Application Development

Time : 3 Hours]

[Total Marks : 70

Instructions

- 1) Figures on the right indicate the marks.
- 2) All Questions are compulsory.
- 3) Answer of each question must start on a new page.
- 4) Answer of all sub-questions of a question should be written in continuous order.

Q.1 Do as Directed(Any 14):

14

- (1) What are the core components under the Android application architecture?
- (2) What is the parent class of all Activity widgets?
- (3) Which method is called when service was created first-time using onStartCommand() or onBind() ?
- (4) Android component that manages appearance and format on screen is called _____
- (5) Fragment in Android can be found through
A. findViewById() B. findFragmentById()
C. getContext().findFragmentById() D. FragmentManager.findFragmentById()
- (6) One of operating system that cannot be used for android application development is
A. Windows B. Mac
C. Linux D. Contiki
- (7) One of recent android version is
A. Pie B. Marshmallow
C. Lollipop D. Jelly Bean
- (8) **What does the src folder contain?**
A. Image and icon files B. XML resource files
C. The application manifest file D. Java source code files
- (9) A _____ method is used to handle what happens after clicking a button.
- (10) _____ method is used to generate custom intents in android.
- (11) A type of _____ element that allows its children relative position representation.
- (12) What is ViewGroup in android?
- (13) What is meant by services?
- (14) What is ANR in Android?
- (15) List dialog boxes supported by android platform?
- (16) Android component that shows part of an activity on screen is _____.

Q.2 Explain Any Two.

14

- (a) Explain Android Architecture in detail with suitable example.
- (b) Explain Android Framework.
- (c) What is the JVM and DVM? Explain important role of DVM.
- (d) 1. What is AVD? Explain the process of creating AVD in Android application development. **03**
2. State the challenges present in the development of Android application. **04**

- Q.3 Explain Any Two.** **14**
- (a) Explain Fragment Life cycle.
 - (b) What is intent? Differentiate between implicit and explicit intent with suitable example.
 - (c) Explain Activity Life cycle with suitable example.
 - (d) Create simple registration form, pass and display those all entered data in another activity using intent.
- Q.4 Explain Any Two.** **14**
- (a) What is layout? Explain the following layouts:
 - 1. Linear Layout
 - 2. Table Layout
 - (b) List and explain different modes of screen orientation. Explain Screen Orientation with example.
 - (c) What is Scrollview? Explain it with suitable example.
- Q.5 Answer Any Two.** **14**
- (a) Explain the use of following using suitable example and syntax:
 - 1. TextView
 - 2. ListView
 - 3. TimePicker View
 - (b) Demonstrate use of ToggleButton class with example. Play Music on toggle on and music off on toggle off.
 - (c) Answer the following:
 - 1 Explain the use of RadioButton and RadioGroup with an example. **04**
 - 2 Demonstrate the use of CheckBox in Android App **03**
 - (d) Explain ProgressBar view, DatePicker view and ImageButton with suitable example.
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