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# **RK UNIVERSITY**

**BCA**

**SEM-6**

## Course Name: Mobile Application Development

## Course Code: BCA622

**Time: 3 Hrs. Total Marks: 100**



Instructions for students:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Programmable calculators are not permitted.

| SECTION – I | | | | | |
| --- | --- | --- | --- | --- | --- |
| Q.1 | (a) | Select the most appropriate option: (Each of one mark) | | | 06 |
|  | 1. | Identify and choose which one code is correct to set the widget Horizontally. | | |  |
|  |  | a. | android:orientation="Raw" | |  |
|  |  | b. | tools:orientation="Horizontal" | |  |
|  |  | c. | app:Orientation="horizontal" | |  |
|  |  | d. | android:orientation="horizontal" | |  |
|  | 2. | Which layout consists of the property of Margin Top ? | | |  |
|  |  | a. | LinearLayout | |  |
|  |  | b. | RelativeLayout | |  |
|  |  | c. | AbsoluteLayout | |  |
|  |  | d. | FrameLayout | |  |
|  | 3. | The new Handler(Runnable…) class is used to create\_\_\_\_\_\_\_ . | | |  |
|  |  | a. | New Activity | |  |
|  |  | b. | New Dataparser | |  |
|  |  | c. | New Thread | |  |
|  |  | d. | New View | |  |
|  | 4. | Which method we can replace to find id of views in main method | | |  |
|  |  | a. | FindViewById | |  |
|  |  | b. | Viewview | |  |
|  |  | c. | Binding | |  |
|  |  | d. | a and c both | |  |
|  | 5. | Full form of OHA is | | |  |
|  |  | a. | Open Handler Alliance | |  |
|  |  | b. | Open Handy Alliance | |  |
|  |  | c. | Open Handset Alliance | |  |
|  |  | d. | Open Handler Alliance | |  |
|  | 6. | Which file consists of code for Launcher ? | | |  |
|  |  | a. | gradle app level | |  |
|  |  | b. | gradle module level | |  |
|  |  | c. | manifest | |  |
|  |  | d. | mipmap | |  |
|  |  |  | | |  |
|  | (b) | Answer following questions: (Each of two mark) | | | 10 |
|  | 1. | Write two method names which are implemented by SQLiteOpenHelper class. | | |  |
|  | 2. | <parent="Theme.MaterialComponents.DayNight.DarkActionBar">  Do needful changes in a code to disappear ActionBar. | | |  |
|  | 3. | Write a xml code to create views : Recyclerview, Webview | | |  |
|  | 4. | To access the internet what task needs to be performed in manifest.xml file. | | |  |
|  | 5. | What is the difference between ListView and RecyclerView ? | | |  |
| Q.2 | (a) | Describe Android Architecture | | | 06 |
|  | (b) | In the String.xml file create 5 countries name and define any background color,text color and backgroundTint color in color.xml file. | | | 05 |
|  | (c) | Describe Android directory structure. Explain types of file which contain gradle,java,res folder. | | | 05 |
|  |  | OR | | |  |
| Q.2 | (a) | With code demonstrate Relative Layout and create Signup form with fields : Username,Email,Password,Confirm Password. | | | 06 |
|  | (b) | Describe : ADT, SDK, AVD. | | | 05 |
|  | (c) | Explain : Service, Broadcast Receiver, Activity. | | | 05 |
|  |  |  | | |  |
| Q.3 | (a) | To jump from one activity to another or open an external link in an application which type of intent we need to use ? Explain with demonstrations of both. | | | 06 |
|  | (b) | Write a steps to create a resource menu file and write a code to create a menus item : Home, products, ContactUs. | | | 06 |
|  | (c) | Create a resource file to | | | 06 |
|  |  | OR | | |  |
| Q.3 | (a) | public class MainActivity extends which Activity ? Write a code of its override method and setContentview | | | 06 |
|  | (b) | Explain Toast with examples and what are the uses of LENGTH\_LONG and show(). | | | 06 |
|  | (c) | What is the use of a drawable folder ? Write steps to create an icon using Vector Assets. | | | 06 |
| SECTION – II | | | | | |
| Q.4 | (a) | Select the most appropriate option: (Each of one mark) | | | 06 |
|  | 1. | SQLiteOpenHelper is \_\_\_\_\_\_\_ | | |  |
|  |  | a. | | abstract class |  |
|  |  | b. | | derived class |  |
|  |  | c. | | Method |  |
|  |  | d. | | inheritance |  |
|  | 2. | To Modify value in SharedPreference which interface is used ? | | |  |
|  |  | a. | | Write |  |
|  |  | b. | | Post |  |
|  |  | c. | | Editor |  |
|  |  | d. | | Edit |  |
|  | 3. | Which one is correct from below. | | |  |
|  |  | a. | | import app.widget.Button; |  |
|  |  | b. | | import android.widget.Button; |  |
|  |  | c. | | import app.view.Button; |  |
|  |  | d. | | import app.View.Button; |  |
|  | 4. | setOnClickListener override which method ? | | |  |
|  |  | a. | | new onView() |  |
|  |  | b. | | new onListner() |  |
|  |  | c. | | new onClickListener() |  |
|  |  | d. | | new onClick() |  |
|  | 5. | How many Fragments exist in one Application ? | | |  |
|  |  | a. | | 1 |  |
|  |  | b. | | 10 |  |
|  |  | c. | | 5 |  |
|  |  | d. | | Not Fixed |  |
|  | 6. | super(context, "Signup.db", factory: null, version: 1); version value is\_\_\_\_. | | |  |
|  |  | a. | | 2 |  |
|  |  | b. | | 9 |  |
|  |  | c. | | 1 |  |
|  |  | d. | | 4 |  |
|  |  |  | | |  |
|  | (b) | Answer following questions: (Each of two mark)  (Desired level - GATE). | | | 10 |
|  | 1. | SQLiteDatabase db =this.getWritableDatabase(); ContentValues contentValues = new ContentValues();  Read the above code and explain its class. | | |  |
|  | 2. | Explain Layoutinflater class and write a code to get a reference of the main layout using layoutinflater. | | |  |
|  | 3. | What do you understand by JSON parsing ? | | |  |
|  | 4. | What is a Content Provider ? | | |  |
|  | 5. | Difference between android: and app: | | |  |
|  |  |  | | |  |
| Q.5 | (a) | Describe service life cycle. | | | 06 |
|  | (b) | Write a code to check if the gender is male or female using java. (Assume required layout is created. and assume the required id.) | | | 05 |
|  | (c) | Write a code for model.java class, define int id,String name, create constructor,getter and setter method. | | | 05 |
|  |  | OR | | |  |
| Q.5 | (a) | Create a cardview with roundcorner and display image and image name inside carview.use required properties to give proper margins. | | | 06 |
|  | (b) | Write a code to load a fragment, begin transaction and replace Fragment. | | | 05 |
|  | (c) | Write steps to publishing an android app. | | | 05 |
|  |  |  | | |  |
| Q.6 | (a) | Explain Networking API, Web API and Telephony api. | | | 06 |
|  | (b) | Create a demonstration to write a code of database connectivity, create a “User” database and “Login” table. | | | 06 |
|  | (c) | Create a Layout for food order using Constraint layout. Required fields are : food image,food name,food price,place order button. | | | 06 |
|  |  | OR | | |  |
| Q.6 | (a) | Do Complete below code :  @Override public MyViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {  LayoutInflater \_\_\_\_\_ = LayoutInflater.\_\_\_\_\_\_*from*(parent.get\_\_\_\_\_());  View view = inflater.\_\_\_\_\_\_(R.layout.*row\_movie*,parent, false);  MyViewHolder viewHolder = \_\_\_\_\_\_MyViewHolder(view);  return \_\_\_\_\_\_\_\_\_; }  @Override public void onBindViewHolder(@NonNull MyViewHolder holder, @SuppressLint("RecyclerView") int position) {  Movies movie = list.get(\_\_\_\_\_\_\_\_);  \_\_\_\_\_\_.txtName.\_\_\_\_Text(movie.getName());  \_\_\_\_\_\_.txtType.\_\_\_\_\_Text(movie.getType());  \_\_\_\_\_\_.txtYear.\_\_\_\_\_Text(String.*valueOf*(movie.getYear())); | | | 06 |
|  | (b) | Write a code to create a view.SetOnClickListener event and set text on DisplayButton to setText on Textview. | | | 06 |
|  | (c) | What are the different data storage options available on the Android platform? | | | 06 |

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