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# **RK UNIVERSITY**

**B. Tech. /BCA/MCA**

**SEM- \_\_\_**

## Course Name: Course Code:

**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 calculator is not permitted.**
5. **Other required instruction**

**Note for paper setter:**

1. **The question paper shall be set in such a manner as to ensure that it covers the entire syllabus of the concerned course.**
2. **The examinations are aimed at evaluating not only the student`s ability to recall information, but also his/her understanding of the subject and ability to synthesize scattered bits of information into a meaningful whole. Some of the questions shall be analytical and invite original thinking or application of theory.**
3. **Paper setter can merge or fragment the sub-questions as required.**

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| --- | --- | --- | --- | --- | --- |
| **SECTION – I**  **Put the questions from the syllabus of Section-I, as provided in paper setting kit** | | | | | |
| **Q.1** | **(a)** | **Select the most appropriate option: (Each of one mark)**  **(Desired level - GATE).** | | | **06** |
|  | **1.** | **Identify and choose which one code is correct to set widget Horizontally.** | | |  |
|  |  | a. | **android:orientation="Raw"** | |  |
|  |  | b. | **tools:oriantaion="Horizontal"** | |  |
|  |  | c. | **app:Orientation="horizontal"** | |  |
|  |  | d. | **android:orientation="horizontal"** | |  |
|  | **2.** | **Which layout consist property of Margine Top ?** | | |  |
|  |  | a. | **LinearLayout** | |  |
|  |  | b. | **RelativeLayout** | |  |
|  |  | c. | **AbsoluteLayout** | |  |
|  |  | d. | **FrameLayout** | |  |
|  | **3.** | **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** | |  |
|  | **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 consist a code for Launcher ?** | | |  |
|  |  | a. | **gradle app level** | |  |
|  |  | b. | **gradle module level** | |  |
|  |  | c. | **manifest** | |  |
|  |  | d. | **mipmap** | |  |
|  |  |  | | |  |
|  | **(b)** | **Answer following questions: (Each of two mark)**  **(Desired level - GATE).** | | | **10** |
|  | **1.** | Write two method name which implements by SQLiteOpenHelper class. | | |  |
|  | **2.** | **<parent="Theme.MaterialComponents.DayNight.DarkActionBar">**  Do needful changes in belowe code to disapear ActionBar. | | |  |
|  | **3.** | Write a xml code to create views : Recyclerview, Webview | | |  |
|  | **4.** | To access internet what task need to perfome in manifest.xml file. | | |  |
|  | **5.** | What is difference bettwen ListView and RecyclerView ? | | |  |
|  |  |  | | |  |
| **Q.2** | **(a)** | Describe Android Architecture | | | **06** |
|  | **(b)** | In String.xml file create 5 countries name and define any background color,textcolor 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 Pasword. | | | **06** |
|  | **(b)** | Describe : ADT, SDK, AVD. | | | **05** |
|  | **(c)** | Explain : Service, Broadcast Reciver, Activity. | | | **05** |
|  |  |  | | |  |
| **Q.3** | **(a)** | To jump from one activity to another or open externel link in application which type of intent we need to use ? Explain with demonstrate 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 setContenview | | | **06** |
|  | **(b)** | Explain Toast with example and what are the use of LENGTH\_LONG and show(). | | | **06** |
|  | **(c)** | what is the use of drawable folder ? Write a steps to create icon using Vector Assest. | | | **06** |
| **SECTION – II**  **Put the questions from the syllabus of Section-II, as provided in paper setting kit** | | | | | |
| **Q.4** | **(a)** | **Select the most appropriate option: (Each of one mark)**  **(Desired level - GATE).** | | | **06** |
|  | **1.** | **SQLiteOpenHelper is \_\_\_\_\_\_\_** | | |  |
|  |  | a. | | **abstract class** |  |
|  |  | b. | | **derived class** |  |
|  |  | c. | | **Method** |  |
|  |  | d. | | **inheritance** |  |
|  | **2.** | **To Modifie value in SharedPreference which interface used ?** | | |  |
|  |  | a. | | Write |  |
|  |  | b. | | Post |  |
|  |  | c. | | Editor |  |
|  |  | d. | | Edit |  |
|  | **3.** | **Which one import is correct from belowe.** | | |  |
|  |  | 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 onClickListner() |  |
|  |  | d. | | new onClick() |  |
|  | **5.** | **How many Fragment exist in one Application ?** | | |  |
|  |  | a. | | 1 |  |
|  |  | b. | | 10 |  |
|  |  | c. | | 5 |  |
|  |  | d. | | Not Fixed |  |
|  | **6.** | **super**(context, **"Signup.db"**, factory: **null**, version: 1); version value replace with\_\_\_\_. | | |  |
|  |  | 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 define its which type of class. | | |  |
|  | **2.** | Explain Layoutinflater class and write a code to get a reference of main layout using layoutinflator. | | |  |
|  | **3.** | What do you understand bby JSON parsing ? | | |  |
|  | **4.** | What is Content Provider ? | | |  |
|  | **5.** | Defrencite between android: and app: | | |  |
|  |  |  | | |  |
| **Q.5** | **(a)** | Describle service life cycle. | | | **06** |
|  | **(b)** | Write a code to check gender is male or female using java. (Assume required layout is created. and assume required id.) | | | **05** |
|  | **(c)** | Write a code for model.java class, define int id,String name, create constructore,getter and seter 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 margine. | | | **06** |
|  | **(b)** | Write a code to load a fragment, beginetransaction and replace Fragment. | | | **05** |
|  | **(c)** | Write a steps to publishing android app. | | | **05** |
|  |  |  | | |  |
| **Q.6** | **(a)** | Explain Networking API, Web API and Telephony api. | | | **06** |
|  | **(b)** | Create a demonstrate to write a code of databse connectivity, create “User” database and “Login” table. | | | **06** |
|  | **(c)** | Create a Layout for food orderusing Constraint layout. Required fields are : foodimage,foodname,foodprice,placeorderbutton. | | | **06** |
|  |  | **OR** | | |  |
| **Q.6** | **(a)** | Do Complete belowe 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.SetOnClickListner 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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