

| Guru Nanak Dev Engineering College, Ludhiana         |  |                                    |               |                       |                                     |                                |          |
|--|--|------------------------------------|---------------|-----------------------|-------------------------------------|--------------------------------|----------|
| Department of Information Technology                 |  |                                    |               |                       |                                     |                                |          |
| Program  |  | B.Tech.(IT)                        |               | Semester              |                                     | 7 <sup>th</sup>                |          |
| Subject Code   |  | PEIT-116                           |               | Subject Title         |                                     | Mobile Application Development |          |
| Mid Semester Test (MST) No.                          |  | 2                                  |               | Course Coordinator(s) |                                     | Ranjodh Kaur                   |          |
| Max. Marks   |  | 24                                 |               | Time Duration         |                                     | 1 hour 30 minutes              |          |
| Date of MST  |  | 14 Nov 2022                        |               | Roll Number           |                                     |                                |          |
| Note: Attempt all questions                          |  |                                    |               |                       |                                     |                                |          |
| Q. No.   | Question   |                                    |               |                       |                                     | COs, RBT level                 | Marks    |
| Q1   | a) _____ represent multiple screen inside one activity.<br>b) _____ component that runs in the background to perform long-running operations.  |                                    |               |                       |                                     | CO4, L1                        | 2        |
| Q2   | a) <b>Identify the following code and discuss what will be in the output.</b><br>Button button;<br>EditText editText;<br>button = findViewById(R.id.button);<br>editText = findViewById(R.id.editText);<br>button.setOnClickListener(new View.OnClickListener() {<br>@Override<br>public void onClick(View view) {<br>String url=editText.getText().toString();<br>Intent intent=new Intent(Intent.ACTION_VIEW, Uri.parse(url));<br>startActivity(intent);<br>}<br>});<br>b) _____ <b>component is used to Display a web page.</b> |                                    |               |                       |                                     | CO4, L5, L1                    | 2        |
| Q3   | Draw a neat diagram of Android Fragment Lifecycle and discuss its each method.   |                                    |               |                       |                                     | CO4, L2                        | 4        |
| Q4   | Discuss the life cycle of Android Service.   |                                    |               |                       |                                     | CO7, L2                        | 4        |
| Q5   | Discuss the list of errors and debugging tools. Write different log methods with its code.   |                                    |               |                       |                                     | CO6,CO7, L3                    | 4        |
| Q6   | a) Define the use of an inflater in an Android. Explain DDMS.<br>b) Write the SQLite operations (Create, View, add and delete).  |                                    |               |                       |                                     | CO5, L2, L6                    | 8        |
| Course Outcomes (CO) <i>Students will be able to</i> |  |                                    |               |                       |                                     |                                |          |
| 1  | Understanding the basic mobile platforms and mobile development environments   |                                    |               |                       |                                     |                                |          |
| 2  | Make use of Android SDK to setup Android Development Environment   |                                    |               |                       |                                     |                                |          |
| 3  | Apply conceptual knowledge of User Interface Designing to design UI in Android SDK   |                                    |               |                       |                                     |                                |          |
| 4  | Develop Interactivity based Android Applications using Fragment, Intents and Event Processing  |                                    |               |                       |                                     |                                |          |
| 5  | Develop Database oriented Android Applications using Persistent Data Storage   |                                    |               |                       |                                     |                                |          |
| 6  | Improve the Android Application Performance using Android Services and Threads   |                                    |               |                       |                                     |                                |          |
| 7  | Analyze and Solve the bugs using Android Security and Debugging features   |                                    |               |                       |                                     |                                |          |
| RBT Classification                                   |  | Lower Order Thinking Levels (LOTS) |               |                       | Higher Order Thinking Levels (HOTS) |                                |          |
| RBT Level Number                                     |  | L1                                 | L2            | L3                    | L4                                  | L5                             | L6       |
| RBT Level Name                                       |  | Remembering                        | Understanding | Applying              | Analyzing                           | Evaluating                     | Creating |

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| Q1   | a) _____ represent multiple screen inside one activity.<br>b) _____ component that runs in the background to perform long-running operations.   | CO4, L1                      | 2                              |
| Q2   | a) <b>Identify the following code and discuss what will be in the output.</b><br><pre> Button button; EditText editText; button = findViewById(R.id.button); editText = findViewById(R.id.editText); button.setOnClickListener(new View.OnClickListener() {     @Override     public void onClick(View view) {         String url=editText.getText().toString();         Intent intent=new Intent(Intent.ACTION_VIEW, Uri.parse(url));         startActivity(intent);     } }); </pre> b) _____ <b>component is used to Display a web page.</b> | CO4, L6                      | 2                              |
| Q3   | Draw a neat diagram of Android Fragment Lifecycle and discuss its each method.  | CO4, L2                      | 4                              |
| Q4   | Discuss the life cycle of Android Service.  | CO7, L2                      | 4                              |
| Q5   | Discuss where we can see the list of errors and tools for debugging. Write its each code.   | CO6,CO7, L3                  | 4                              |
| Q6   | a) What is the use of an inflater in Android? What is DDMS?<br>b) How SQLite is managed, discuss all the operations. (Create, View, add, delete the data).  | CO5, L2                      | 8                              |