

JK Lakshmipat University Jaipur
INSTITUTE OF ENGINEERING AND TECHNOLOGY

End Term Examination, December, 2021

BCA, Semester: III

Roll No.....

CS1123: Android Application Development

Time: 3 hours

Max. Marks: 30

Instructions to students:

1. Do not write anything other than your roll number on question paper.
 2. Assume suitable data wherever required and mention it clearly.
 3. Writing appropriate units, nomenclature, and drawing neat sketches/schematics/ flow chart wherever, required are an integral part of the answer.
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Section-A

5*5=25

1. Design speech to text conversion application using Java in android studio. How do we integrate internal resources and machine learning kit in development?
2. Design Notebook application where user can store their daily information/routines and they can track the same using alarm. Application must be functional in offline mode then which database would be preferred in this scenario?
3. Design the calculator front-end given below in XML using constraint layout or relative layout.



4. Code of intent for switching one activity to another is given below. Explain the conduction.

```

public class MainActivity extends AppCompatActivity {
    public static final String key = "Registration";
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
    public void registrationOrder(View view){
        // We will handle the click on the button here
        //Build an Intent to open another activity
        Intent intent = new Intent(this, RegistrationActivity.class);
        EditText editText1 = findViewById(R.id.editText1);
        EditText editText2 = findViewById(R.id.editText2);
        EditText editText3 = findViewById(R.id.editText3);
        String message = "Registration of " + editText1.getText().toString() + " "
            + editText2.getText().toString() + " in "
            + editText3.getText().toString() + " Department has been successfully Done
!!";
        intent.putExtra(key, message);
        startActivity(intent);
    }
}

```

5. Why do we use Dalvik virtual machine while development in android instead of java virtual machine?

Section-B

5*1=5

1. What does Manifest.xml in Android consist of?
2. In which directory XML Layout files are stored?
3. On which kernel Android is based upon?
4. Write one JSON exception in android?
5. Which are the important device characteristics that should be considered when you design and develop an Android application?
 - A. Screen size and density
 - B. Device features
 - C. Input configurations
 - D. All of the above
