

**GOA VIDYAPRASARAK MANDAL'S
GOPAL GOVIND POY RAITURCAR COLLEGE OF COMMERCE AND
ECONOMICS, PONDA-GOA**

**B.C.A. (SEMESTER - V) EXAMINATION – AUGUST 2020
COMPUTER SCIENCE ELECTIVE – I : ANDROID PROGRAMMING**

Duration : 2 hours

Marks : 30

**Instructions : 1. All questions are compulsory however internal choice is available.
2. Figures to the right indicate full marks.**

1. Answer any FIVE of the following. (5x2= 10)
 - a) Explain AnalogClock and DigitalClock Views.
 - b) Explain ProgressBar View.
 - c) List any four useful content providers shipped by Android.
 - d) Name the two ways in which you can send SMS messages in your Android Application.
 - e) Write a short note on BroadcastReceiver.
 - f) What is the difference between Geocoding and Reverse Geocoding ?
 - g) What is Monitoring a Location ?
 - h) What is the use of the IntentService class ?

2. Answer any FOUR of the following. (4x5= 20)
 - a) Explain any five features of Android.
 - b) Explain the Relative Layout with the required code in main.xml by considering an appropriate example.
 - c) Explain the Life cycle of an activity with the various stages.
 - d) Explain saving and loading User Preferences.
 - e) Explain Predefined Query String Constants with appropriate examples.
 - f) Explain versioning of Android Application.
