

**BCA DEGREE END SEMESTER EXAMINATION : OCTOBER 2022****SEMESTER 5 : MOBILE APPLICATIONS AND CLOUD TECHNOLOGY****COURSE: 19U5CRBCA16 : ADVANCED ANDROID**

*(For Regular – 2020 Admission and Supplementary 2016/2017/2018/2019 Admissions)*

Time: Three Hours

Max. Marks: 75

**PART A****Answer All (1 mark each)**

1. What are the three types of notifications?
2. .... is standardized and extensible messaging frameworks for sharing structured data across the network.
3. Which contain Open GL Shading Language (GLSL) code?
4. What are the ways application developers draw images to the screen?
5. Which system property in member variable defines a standard “short” duration for the animation?
6. Android UI toolkit can only be accessed by .....?
7. .... method reports any HTTP error in WebViewClient.
8. .... is enabled by default in Android WebView.
9. Which framework in Android does backup?
10. Android TV uses ..... UI Model **(1 x 10 = 10)**

**PART B****Answer any 8 (2 marks each)**

11. Describe an Intent Service.
12. How can you establish a socket connection between two android devices?
13. Describe RPC and XML-RPC.
14. Describe the fields of Frame Animation.
15. What is the use of bitmap in Android?
16. What is a UI thread?
17. Distinguish between the GET and POST methods in an HTTP request.
18. What are the different tags in the XML document?
19. Explain briefly about In-App Billing
20. Describe Signature permission.

**(2 x 8 = 16)**

**PART C****Answer any 5 (5 marks each)**

21. Distinguish between bounded service and unbounded service.
22. Briefly explain various steps involved in creating an OpenGL App to draw a Circle.
23. Describe the transition framework.
24. Describe the different processes
25. Explain various steps to use SOAP for communications
26. Explain the use of permissions in your app with an example.
27. Describe the best practices for the Performance of Android Applications.

**(5 x 5 = 25)****PART D****Answer any 2 (12 marks each)**

28. Describe the notification framework with an example.
29. Briefly explain the switching between the tasks with an example.
30. Describe the steps involved in integrating C2DM in app.
31. Write a program to create a simple HelloWorld app for Android TV.

**(12 x 2 = 24)**

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