

**B C A DEGREE END SEMESTER EXAMINATION - OCT. 2020 : JANUARY 2021****SEMESTER 5 : MOBILE APPLICATIONS AND CLOUD TECHNOLOGY****COURSE : 16U5CRBCA15 : ADVANCED ANDROID***(For Regular - 2018 Admission and Supplementary - 2017 & 2016 Admission)*

Time : Three Hours

Max. Marks: 75

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

1. What is the callback methods to bind services?
2. What are the building blocks of SOAP?
3. Which animation shows a sequence of images in order like a film?
4. What is to be enabled by default in Android Web View?
5. What is empty process?
6. What is the use of clearTaskOnLaunch attribute of the Activity?
7. Explain about tag in XML document.
8. Which class is used to create array using java library for JSON?
9. List any four protected API permissions.
10. How to configure auto-backup to cloud for the applications.

**(1 x 10 = 10)****PART B****Answer any 8 (2 marks each)**

11. What are the states of a service?
12. When a service is started by onStart Command , it will return service constants . List the different service constants returned.
13. Define the elements of Property Animation?
14. Distinguish between Canvas and Drawable?
15. What is Thread Looper?
16. Explain the methods defined in Web View class.
17. Differentiate web service and web app
18. List the methods used by JSON object to parse the JSON file.
19. What are the three different kinds of data in Android for which various set of permissions are defined?
20. Explain about Protected API permissions.

**(2 x 8 = 16)****PART C****Answer any 5 (5 marks each)**

21. Distinguish between AlarmManager and JobScheduler.
22. Explain Remote Service communication in Android
23. What are the different types of Animations in Android?
24. Illustrate the different ways to post task to UI thread.
25. Discuss the use of Async<> class used with background threads.
26. Explain steps to integrate a third party application to a web service
27. How to add Manifest permission in android application?

**(5 x 5 = 25)**

**PART D**

**Answer any 2 (12 marks each)**

28. Briefly explain the notification framework with example.
29. Illustrate animating views in different scenes of view hierarchies.
30. Explain briefly about JavaScript Object Notation and XML parsing. Compare between JSON and XML parsing.
31. What are the basic security features provided in Android?

**(12 x 2 = 24)**