Time : $2\frac{1}{2}$ Hours]   [Total Marks : **70**

1   (a)   Fill in the blanks :   **4**

      (1)   Idpi stands for _____

      (2)   _____ file contains layout and design related xml files.

      (3)   ADB stand for _____

      (4)   NFC stand for _____

    (b)   Answer in brief : (any **one**)   **2**

      (1)   What is Android ?

      (2)   What is Service ?

    (c)   Answer in detail : (any **one**)   **3**

      (1)   What is Linux Kernel and list out its Classes ?

      (2)   Explain .dex file.

    (d)   Write a note : (any **one**)   **5**

      (1)   Explain Activity Life Cycle with example.

      (2)   Explain different intent types.

2   (a)   Fill in the blanks :   **4**

      (1)   _____ allows the user to type text into your app.

      (2)   Any view object may have an integer _____ Associated with it.

      (3)   _____ element create TextView widget in your UI.

      (4)   User can add a text field to your layout with the _____ object

(b) Answer in brief : (any **one**) **2**

(1) What is View ?

(2) What is canvas ?

(c) Answer in details : (any **one**) **3**

(1) Explain TimePicker with Example.

(2) Explain input types for EditText.

(d) Write a note : (any **one**) **5**

(1) Explain Spinners in details with example.

(2) Explain different types of Layout in detail.

3 (a) Fill in the blanks : **4**

(1) _____ is used to get String values from SharedPreferences.

(2) To create temporary file in internal cache directory _____ is useful.

(3) _____ method is used to delete file.

(4) Binary data is shared using the _____,

(b) Answer in brief : (any **one**) **2**

(1) Write a methods of data storage.

(2) What is Internal Storage ?

(c) Answer in details : (any **one**) **3**

(1) Explain Schema.

(2) How to retrieve available free space in your mobile ?

(d) Answer in note : (any **one**) **5**

(1) What is SQLite Database ? Explain methods for creating, updating and deleting querying database records.

(2) Create an application to save file on internal storage.

4 (a) Fill in the blanks : **4**

(1) ANR stand for _____.

(2) Use the _____ method to issue the notification.

(3) GPS stand for _____.

(4) JSON stand for _____.

(b) Answer in brief : (any **one**) 2

    (1) What is START_STICKY.

    (2) What is notification ?

(c) Answer in details : (any **one**) 3

    (1) Explain longitude, latitude.

    (2) Explain Android Telephony API.

(d) Write a note : (any **one**) 5

    (1) Write a step to publish android application.

    (2) Explain how to check the network connection.

5 (a) Fill in the blanks : 4

    (1) The _____ represent the data in your application.

    (2) In iPhone _____ operating system in used.

    (3) MVC stand for _____.

    (4) _____ is a visual design editor that's integrated into xcode.

(b) Answer in brief : (any **one**) 2

    (1) What is controls ?

    (2) What is control state ?

(c) Answer in details : (any **one**) 3

    (1) Explain keyboard layout in TextField.

    (2) Explain Button Shadow.

(d) Write a note : (any **one**) 5

    (1) Explain XCode IDE in detail.

    (2) Explain framework in detail.

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