## B.Sc. Honours Examinations 2020
### (Under CBCS Pattern)
### Semester - III
### Subject : ELECTRONICS
#### Paper : SEC-1T

### Full Marks : 40
### Time : 2 Hours

*Candidates are required to give their answers in their own words as far as practicable.*
*The figures in the margin indicate full marks.*

## Design and Fabrication of Printed Circuit Boards

Answer any *two* questions from the following :  2×20

1. (a) Write down the advantage of PCB.

    (b) What is a Gerber file? How is it used while making a PCB?

    (c) What is the advantage of layout planning and design.  8+5+7

2. (a) Give the important factors for board mounting.

    (b) Write down the component placement rule.  10+10

3. (a) Give the brief description of photolithography for manufacturing PCB. What do you mean by positive and negative photoresist?

    (b) Write down the advantage of plating.  12+8

4. (a) Describe methods by which the rate of wet etching can be enhanced?

(b) What are the disadvantages of wet etching? 10+10

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# Mobile Application Programming

Answer any *two* questions from the following : 2×20

1. (a) What are the differences between Software; Web based application and Application Programming? Briefly discuss the architecture of the Android and its development.

(b) What is an Operating System? Compare and contrast between Android, iOS and Windows platform in context to application development and use. (6+6)+(2+6)

2. (a) Describe about the designing the right user interfaces for mobile application.

(b) Explain the MVC pattern of mobile application. 10+10

3. (a) What is an Android Intent? Discuss.

(b) What is Parsing? Explain Parsing with suitable example. 10+(3+7)

4. (a) Explain View, List View, Grid View and web View? Also, list out the differences between ADB and ANR in android.

(b) How can Exceptions and Dialog boxes are handled in Android. Use example to illustrate. (8+6)+6

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