Full Marks: 40

UG/3rd Sem/ELECL/(H)/T/19

Time: 2 Hours

2019

B.Sc.

3rd Semester Examination ELECTRONICS (Honours)

Paper - SEC 1-T

The question are of equal value for any group/half. The figures in the margin indicate full Marks. Candidates are required to give their answers in their own words as far as parctiable. Illustrate the answers wherever necessary.

Design Fabrication of printed Circuit Board

1. Answ	ver any five questions:	5×2
a)	What are the constituents of copper clad?	2
b)	What is resin?	2
c)	On which factor size and number of PCB depends	? 2
d)	What is modular arrangment of PCB ?	2
e)	Mention different types of etching.	2

f) What is emulator material?	?			
g) Give names of two layers on the film master. ?	<u>)</u>			
h) What is line photography?	2			
2. Answer any four questions: 4×5	5			
a) Name the mechanical operations of PCB.	5			
b) What are the factors we have to consider for the choice of etchants?	e 5			
c) What is film master?	5			
d) Discuss double sided PCB and its significance.	5			
e) What are filters and copper foil?	5			
f) Discuss about general check list for layout design.	5			
3. Answer any <i>one</i> question: 1×10				
a) i) Explain mechanical drawing of PCB.				
ii) When and how are photoresist used in PCI fabrication?				
b) i) What is photoresist etching?				
 ii) State with justifications whether you would increase or decrease the wavelength of the illuminating source for higher density? 	e			

Mobile application programming

Full Marks: 40 Time: 2 H	ours
1. Answer any five questions:	5×2
i) What do you understand by mobile applic programming?	cation 2
ii) What is the goal of Eclipse simulator?	2
iii) What is Android?	2
iv) What are intents?	2
v) State the importance of XML-based output.	2
vi) Explain objective of C language.	2
vii) List some UI elements used in ios?	2
viii) What is a frame in an animations?	2
2. Answer any four questions:	4×5
i) What are the characteristics and benefits of application?	mobile 5
ii) Discuss the design issues in Apple iPhone.	5
iii) Briefly explain the activity life cycle.	5
iv) How do you store and retrive data in A environment?	Android 5
[Turn	Over j

 v) Explain the MVC pattern of mobile applica 	ation. 5
vi) Describe the layers present in ios.	5
3. Answer any one question:	1×10
i) Describe android architecture in detail.	10
ii) What do you mean by event based program	ıming.
	7+3