

S.No. 2239

12UELS06

(For the candidates admitted from 2012 – 2013 onwards)

B.Sc. DEGREE EXAMINATION, APRIL/MAY 2018.

Sixth Semester

Electronics and Communication

SBEC – PCB DESIGN AND FABRICATION

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. Define PCB.
2. What is mean by Layout?
3. Define – Artwork.
4. List the types of laminates.
5. Define – Etching.
6. List the cutting methods.
7. Define – Brazing.

8. List the types of Soldering Tools.
9. List the polluting agents of PCB.
10. Define – Air pollution.

PART B — (5 × 5 = 25 marks)

Answer ALL the questions.

11. (a) Write a short note on PCB classification.
Or
(b) Write a short note on conductor patterns.
12. (a) Write a short note on Artwork Preparation guidelines.
Or
(b) Write a short note on Photo Printing.
13. (a) Write a short note on Electroplating Process.
Or
(b) Write a short note on Hole punching.
14. (a) Write a short note on Flexible PCB's.
Or
(b) Write a short note on Mass Soldering.

15. (a) Write a short note on Recycling of water.

Or

- (b) Write a short note on Toxic chemicals.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain in details about the Digital and Power Electronic circuits with neat diagram.
17. Write in details about the properties and types of laminates.
18. Explain in details about the plating techniques and problems in plating.
19. Write in details about the post soldering and cleaning.
20. Explain in detail about the pollution control in PCB Industry.