

QP CODE: 18103727



Reg No :

Name :

B.Sc.DEGREE(CBCS)EXAMINATION, DECEMBER 2018

First Semester

Core Course - EL1CRT02 - METHODOLOGY OF SCIENCE

(Common to B.Sc Electronics and Computer Maintenance Model III, B.Sc Electronics Model III)

2018 Admission only

B76FCC84

Maximum Marks: 80

Time: 3 Hours

Part A

Answer any **ten** questions.

Each question carries **2** marks.

1. What is meant by philosophy of science?
2. What is bronze age?
3. What is Ionian school of philosophy?
4. What is the contribution of William Harvey in medical science?
5. Explain the significance of Newton in the scientific revolution?
6. What is phlogiston?
7. Explain the 'mills method' in induction?
8. What is realism in science?
9. What are semiconductors?
10. Who invented transistor?
11. What are the advantages of optic fiber communication?
12. What is the importance of semiconductor devices in electronics?

(10×2=20)

Part B

Answer any **six** questions.

Each question carries **5** marks.

13. Briefly describe the Tigris-Euphrates civilization?
14. What are the contributions of early China in the scientific progress?
15. Why Galileo is referred as the father of modern science?





16. Discuss the role played by Bacon and Descartes in modernizing science?
17. Write a brief note on the great contemporaries of Newton?
18. Explain scientific determinism?
19. Explain reductionism in science ?
20. What are the types of modulation? Explain with figure.
21. Briefly discuss the use of electronics in medicine?

(6×5=30)

Part C

Answer any **two** questions.

Each question carries **15** marks.

22. Explain the ways in Alexandria contributed to the early mathematics ,astronomy,and medical sciences?
23. Explain the contributions of ancient Ionia to the development of science?
24. Write a detailed note on early electrical communications?
25. Explain the different computer generations in detail?

(2×15=30)

