QP CODE: 23104836

23104836

Reg No : .....

Name : .....

B.Sc DEGREE (CBCS) REGULAR/IMPROVEMENT/REAPPEARANCE EXAMINATIONS, FEBRUARY 2023

First Semester

Core Course - EL1CRT20 - METHODOLOGY OF SCIENCE(2019 ADMISSION ONWARDS)

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

2019 Admission Onwards

E9B79D91

Time: 3 Hours Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. What are the scientific contribution of Archimedes in Alexandria ?
2. What is the importance of Julian calendar?
3. Explain the best known positive contribution of Leonardo da Vinci.
4. What is the major finding of Michael Servetus about blood circulation?
5. Discuss the contributions of Euler in mathematics.
6. How French revolution affects the scientific progress?
7. Define pseudo-science.
8. Mention some advantages of transistor over vacuum tubes.
9. What are the advantages of integrated circuits?
10. What is wireless communication?
11. Name different types of memories used in a digital computer.
12. What is a microprocessor?

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Explain the contribution of Aristotle to the European origin of science.

14. Explain the advantages in Vedic medicine.

15. Briefly explain the contributions of Kerala School of Astronomy and Mathematics.

16. Why Newton's Principia is described as the greatest work in the history of science?

17. Explain Induction and Deduction.

18. Explain the disadvantages of vacuum tube.

19. What are the simplex, duplex and half duplex modes in communication?

20. Briefly discuss the use of electronics in medicine.

21. Briefly discuss the role of electronics in navigation.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Explain the findings of Bruno, Copernicus , Galieleo and Kepler in astronomy.

23. Explain about the contributions of contemporaries of Newton.

24. Explain the working of a Television.

25. Explain the principles of optical fibre. What are its advantages over cables?

(2×15=30)