Government Arts and Science College, Avinashi-641654

CIA Test-II -November-2020

Class: II-B.Sc. Chemistry

Date: 23-11-2020 FN   Max. Marks: 50 Marks

Subject: Allied Physics-I   Semester: III

Part-A (6x1=6)

Answer all the questions

1. The frequency of ultrasonic wave……….

2. In van der Waal's equation of state the constant 'b' corresponds to ……

3. When a source of sound and observer move in the same direction with the same velocity the apparent frequency ………….

4. Flux loss in a transformer can be minimized using ………

5. A transformer transform……….

6. Ultrasonic waves are produced by ……. Electric effect.

Part- B (4x5=20)

Answer any FOUR questions

7. Write down the application of Doppler effect.

8. State and explain JK effect.

9. What are the uses of transformer?

10. Give the basic principle of a ballistic galvanometer.

12. Calculate critical constant of gas.

13. Explain the conversion of galvanometer into ammeter.

14. Describe the construction of transformer.

15.Mention the losses of a transformer.

Part-C (3x8=24)

Answer any THREE questions

16. Explain the method of liquefaction of hydrogen.

17. Explain how galvanometer into voltmeter.

18. Explain how will you determine the charge sensitiveness of galvanometer?

19. Explain the methods of producing ultrasonic waves.

20. Describe about potentiometer.

21. What are the properties of ultrasonic waves?

******All the Best******