

Register Number:
Name of the Candidate:

B.Sc. DEGREE EXAMINATION, May 2015

(CHEMISTRY)

(SECOND YEAR)

(PART-III)

(GROUP-B: ANCILLARY-II)

661. PHYSICS

(Common with B.sc Applied Chemistry with 75 marks)

Time: Three hours

Maximum: 100 marks

SECTION-A

(5×5=25)

Answer any FIVE question

1. State Newton's law of gravitation.
2. Define Co-efficient of Viscosity.
3. Define Surface tension and give its dimensions.
4. What are molecular forces ? State their properties.
5. Define optical activity.
6. Write any two properties of cathode rays.
7. Define intensity of sound.
8. Convert the decimal number 29 in to binary number.

SECTION-B

(5×15=75)

Answer any FIVE questions

9. Describe with relevant theory an experiment to determine the Young's modulus of a bar by Non-uniform bending method.
10. Determine the frequency of a.c mains using sonometer.
11. Explain the principle and working of moving coil ballistic galvanometer.
12. Explain mass defect and nuclear binding energy.
13. Explain the construction and working of Ruby Laser.
14. Describe an experiment to draw static characteristics of a transistor in CE mode.
15. Describe basic logic gate function. Give logic circuit symbol, truth table and logic function in each case.
16. Define ultrasonic. How to produce ultrasonic waves? What are the uses of ultrasonic waves.
