



BNP-2722

Total No. of Printed Pages:2

SUBJECT CODE NO: - BNP-2722
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. (NEP) (P-2024) S.Y Sem III
Examination November / December 2025
Chemistry (Concepts of Chemistry-II)

[Time:1Hours]**[Max. Marks:30]**

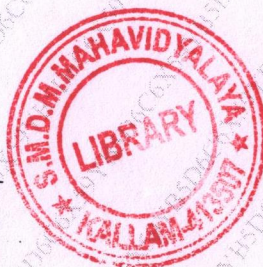
N. B

Please check whether you have got the right question paper.

- 1) Question No.1 is multiple choice objective type and it is compulsory. It carries 10 Marks.
- 2) Attempt any four questions from Q.2. to Q.7. Each question carries 5 marks.
- 3) Figures to the right indicate full marks.

PART-A**Q.1 Attempt all MCQ****10**

- 1) The SI unit of electrical conductivity is-----
 (a) Siemens per meter (b) Volt
 (c) ohm (d) Ampere
- 2) The energy of a quantum of radiation is given by----
 (a) $E = mc$ (b) $E = h\gamma$
 (c) $E = 2h\gamma$ (d) $E = h^2\gamma^2$
- 3) Bohr's theory has no explanation for-----
 (a) Zeeman effect (b) stark effect
 (c) both a and b (d) None of the above
- 4) photochemical activation is highly selective this statement is
 (a) false (b) true
 (c) Sometime true (d) sometime false.
- 5) The emission of light as a result of chemical action is called as.
 (a) fluorescence (b) phosphorescence
 (c) Photosensitization (d) chemiluminescence

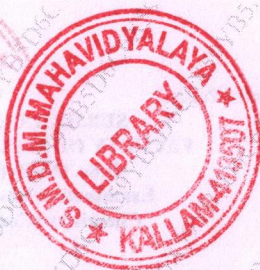
**PART-B**

Attempt any four questions from Q.2 to Q.7 each question carries 5 marks

Q.2 State and explain ohm's law.**5**

Q.3 calculate cell constant, specific conductance and equivalent conductance if 0.1 N KCl solution is placed between two platinum electrodes 2 cm apart and area of cross section 4 cm^2 has resistance of 250 ohm

5**Q.4** Distinguish between Photochemical process and thermal process.**5****Q.5** Write a note on Photosensitization**5**



BNP-2722

Q.6 Write statements of Planck's radiation law.

5

Q.7 Explain Heisenberg's uncertainty principle

5

