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DUMKAL COLLEGE

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(Govt. Aided, Affiliated to the: University of Kalyani Included under section 2(f) & 12 (B) of UGC Act.)

Notice

02.07.2026

All the Students of Semester IV and II of Department of Chemistry are asked to submit the assignment given below on or before **09/07/2026**.

SEM IV (CCF-NEP)

CHEM-MAT-4 Organic

10

1. Write a brief notes with suitable examples on Tautomerism, Prototropy (keto-enol, nitro - aci-nitro, nitroso-oximino, diazo-amino and enamine imine systems); valence tautomerism and ring-chain tautomerism.

CHEM-MAT-5 Physical

10

1. Define chemical potential. Derived the relation between chemical potential and Gibbs free energy, and explain how chemical potential varies with temperature and pressure.
2. Find the value of energy for particle in 1-D box. Calculate Maximum value for Compton shift.

CHEM-MINOR

5

1. Explain VSEPR theory in detail with suitable examples.
2. Write a short note on Werner's coordination theory.

SEM II (CCF-NEP)

CHEM-MAT-2 Organic

10

1. Write a short notes on Carbocations (carbenium and carbonium ions), carbanions, carbon radicals, carbenes, benzyne, nitrenes mentioning generation and stability, structure using orbital picture.

CHEM-SEC-2 IT Skills for Chemist

10

1. Discuss the stepwise conversion of given decimal number to binary number 99 and 112
2. Write down the full form of i) CPU and ii) DOS
3. Write short notes on AND and NOT gate.

CHEM-MINOR

5

1. Write a short note on HSAB principle and its application.
2. Derive the expression for the radius and energy of the electron in the hydrogen atom using Bohr's atomic theory.

MDC- Chemistry in Daily Life

5

All the students having MDC paper -Chemistry in Daily Life are asked to fill the google form via the link given below. This is urgent for Sem 2 Internal Examination-2026.

<https://forms.gle/Tgz61Nb1LxNhJDgX7>

Signature
Head of the Department
Department of Chemistry
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