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# DUMKAL COLLEGE

P.O- Basantapur, P.S- Dumkal, Dist.- Murshidabad, West Bengal, PIN- 742406

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

## NOTICE

**22.05.2024**

### **Internal Examination 2024**

### **Department of Chemistry**

#### **Assignment for 6<sup>th</sup> Semester Honours Courses**

**Inorganic (CC-13):** Write down a short note on “IUPAC nomenclature of organometallic compounds” and discuss in detail about “Sodium ion pump”.

**Organic (CC-14):** Structure of Nucleic Acids and Hydrolysis of Nucleosides.

**Physical (DSE-3):** Define Polymer and classify polymer into different categories.

#### **Assignment for 6<sup>th</sup> Semester Programme Course (CHEMPDSE-2)**

Pesticides (Production, application & toxicity) - i) DDT ii) Gammaxane iii) Aldrin iv) Parathion

#### **Assignment for 4<sup>th</sup> Semester Honours Courses**

**Physical (CC-8):** Thermodynamically derive depression of freezing point of solution and derive the formula to calculate molar mass of the solute.

**Inorganic (CC-9):** Discuss the principle and use of radio carbon dating and deduce the equation  $t_{1/2} = 0.693/k$  from the definition of half-life period of radioactive nuclei.

**Organic (CC-10): Explain with suitable examples:** Bathochromic and Hypsochromic shifts. Write mechanism of Fries rearrangement, Claisen rearrangement, Beckmann rearrangement and Baeyer-Villiger oxidation.

**Pharmaceutical Chemistry (SEC-2):** Drug design and development: antibiotics.

**Chemistry GE-2:** Molecular Orbital theory - Postulates & Application.

#### **Assignment for 4<sup>th</sup> Semester Programme Course**

**Chemistry Program Core Course-4:** i) Lever Rule and its application ii) Warner's Co-ordination theory

**SEC (CHEMPSE-2):** Write a short note on analgesic drugs.

**Last date of submission of Internal Assignment: 06/06/2024**

**By Order**

**HoD**