



**Shree H.N.Shukla Group of Colleges**  
**B.Sc. (Sem-VI) (CBCS) (Unit Test-II)**

**C-602: Organic and Spectroscopy**

**Time: 1.5 hours**

**Date: 01 /06/2021**

**Total Marks: 30**

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**Instructions**

- 1. All Questions are compulsory.**
- 2. Figure to the right indicates the full marks of Questions.**

**Q.1 (A) Answer the Following. [01]**

- (1) What is IUPAC name for Isoprene?
- (2) How many Isoprene units in Diterpenoids?
- (3) Mixture of PETN with TNT is known as.
- (4) Which nitro musk has the strongest odour among all the nitro musk ?
- (5) Carbendazim is synthesized from.....

**(B) Answer the Following (any one). [02]**

- (1) Define the term terpenoids.
- (2) Write a short note on Baygon.

**(C) Answer the Following (any one). [03]**

- (1) Write a short note on Isoprene rule.
- (2) Explain synthesis & uses of PETN.

**(D) Answer the Following (any one).** [05]

- (1) Express the constitution of Citral.
- (2) Explain about Parathion with synthesis and their uses.

**Q.2 (A) Answer the Following** [01]

- (1) Which polynuclear hydrocarbons are used for the heat transfer medium?
- (2) Define Isomer?
- (3) What is Dihedral angle?
- (4) Define Base peak in mass spectrum
- (5) Mass to charge ratio defined as \_\_\_\_\_

**(B) Answer the Following (any one).** [02]

- (1) Explain classification of polynuclear hydrocarbons.
- (2) Give the two methods for synthesis of Diphenyl
  - (a) By Ullman reaction
  - (b) From Benzene

**(C) Answer the Following (any one).** [03]

- (1) Explain ring flipping in cyclohexane
- (2) Write a short note on the type of ion produced in the ionization chamber.

**(D) Answer the Following (any one).** [05]

- (1) Explain the chemical properties of naphthalene
- (2) Conformational analysis of cyclohexane