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| *Vivekanand Shikshan Sanstha’s***Vivekanand Arts, Sardar Dalipsingh Commerce & Science College, Aurangabad** |

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| **Unit Test** |

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| **Academic Year:** 2019-20 | **Date:** 13/09/2019 |
| **Semester:** III | **Name of Course:** B.Sc. II year |
| **Subject:** Chemistry | **Unit Test No.:** 01 |
| **Paper No:** VIII | **Paper Name:** Physical Chemistry |

(Time: 45 min)

**Q. 1: (a)** Define Cp and Cv. Derive relationship between Cv and Cp. 10 Marks

 **OR**

**Q. 1: (b)** State and explain postulates of second Law of Thermodynamics. 10 Marks

**Q. 2: (a)** Define Intensive and Extensive propertieswith suitable examples.05 Marks

 **(b)** Give types of Thermodynamic Processes. 05 Marks

 **OR**

**Q. 2: (a)** State and explain Carnot’s Theorem. Give formulae to calculate

 efficiency of machine.  05 Marks

 **(b)** Define Entropy. Give any two applications of Entropy05 Marks