**MODAL QUESTION PAPER: MARCH 2023**

**PHYSICS**

**Time: 3Hrs Mark: 70**

**General instruction:**

**The question paper is divide in four section:**

**(1) Section A: Q.no 1 contains ten multiple choice questions carrying one word each**

**Q.no 2 contains eight very short answer question carrying one word each**

**(2) Section B: Q.no 3, Q.no14 contains twelve short answer type of question carrying two marks (attempt any eight)**

**(3) Section C: Q.no15, Q.no26 contains twelve short answer type of question carrying three mark (attempt any eight)**

**(4) Section D: Q.no27, Q.no31 contains five long answer type of question carrying four mark (attempt any three)**

**(5) Use of the log is allowed. Use of the calculator is not allowed.**

**(6) Figures to the right infinites full mark.**

**SECTION-A**

**Q.1 Select and write the correct answer for the following multiple choice type of question [10]**

**(i) The first law of thermodynamic is concerned with the conservation of -----------**

**(a)Momentum (b) Energy**

**(c) Temperature (d) Mass**

**(ii)**

**(a) Zero (b)**

**(c) (d) 2**

**(iii)**

**(a) (b) \**

**(c) T (d) \T**

**Q.26 the two cells of 4V and 2V having internal resistance of 1 and 2 in connected to parallel 5**