**BME ASSIGNMENT QUESTIONS FOR 2ND SEM COMP.SCIENCE,SEC-A**

**(SHORT QUESTIONS) ( 2x10)**

**Q1.(i) Why couplings are used in machines? (mod-3)**

**(ii) What is the principle of strain gauge?(mod-4)**

**(iii) Explain Zeroth law of thermodynamics.(mod-1)**

**(iv) Define critical point and triple point.(mod-1)**

**(v) What do you mean by gear train? (mod-3)**

**(vi) Explain second law of thermodynamics. (mod-1)**

**(vii)Compare the belt drive with gear drive.(mod-3)**

**(viii)Explain briefly about slip and creep of a belt in belt drive. (mod-3)**

**(ix) Derive PdV work for various processes. (mod-1)**

**(x) What is path and point function? Differentiate. (mod-1)**

**(LONG QUESTIONS) ( 6x5 )**

**Q2. Write down the different methodologies of temperature measurement.(mod-4)**

**Q3. What is a coupling? Explain with neat sketch.(mod-3)**

**Q4. What is IC Engine, classify. Name the major components with their functions.(mod-2)**

**Q5. Specify robot anatomy.(mod-3)**

**Q6. Classify the air compressors.(mod-2) (16x2)**

**Q7. Explain (in detail with line diagram) the working of a four stroke and two stroke petrol engines.(mod-2)**

**Q8. Explain the working of a steam power plant. (mod-2)**