

# APGENCO MECHANICAL ENGINEERING 2012 PAPER

**MAX MARKS: 100**

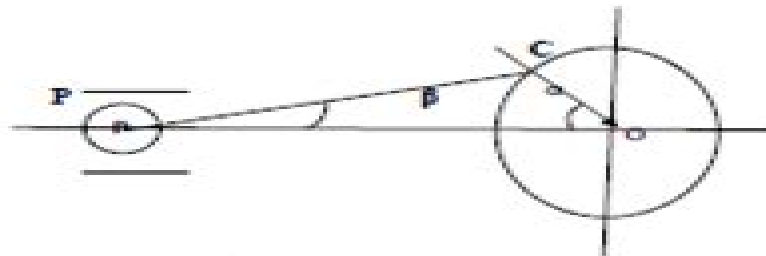
**TIME: 2Hours**

**100 Questions**

**SECTION: A**

**70 Marks**

**Q.1. The cross head velocity in the slider crank mechanism, for the position shown in Fig. below?**



- (A)  $V_c \cos(90 - \alpha + \beta) \cos \beta$  (B)  $V_c \cos(90 - \alpha + \beta) \sec \beta$   
 (C)  $V_c \cos(90 - \alpha - \beta) \cos \beta$  (D)  $V_c \cos(90 - \alpha - \beta) \sec \beta$

**Q.2. A Small element at critical section of a component is in a bi-axial state of stress with the two principal stresses being 360MPa and 140MPa. The maximum working stress according to Distortion energy theory is**

- (A) 220MPa (B) 110MPa (C) 314MPa (D) 330MPa

**Q3. Fifty observations of production operations relieved a mean cycle time of 10min. the worker was evaluated to be performing at 90% efficiency. Assuming the allowances to be 10% of the normal time, the stand and time (in sec) for the job is**

- (A) 0.198 (B) 7.3 (C) 9.0 (D) 9.9

**Q.4. The lengths of the links of a 4-bar linkage with revolute pairs only are p,q,r and s units. Given that  $p < q < r < s$ , which of these links should fixed one , for obtaining "a double crank" mechanism**

- (A) links of length p (B) links of length q  
 (C) links of length r (D) links of length s

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