

**APGENCO MECHANICAL ENGINEERING 2012  
PAPER**

**MAX MARKS: 100**

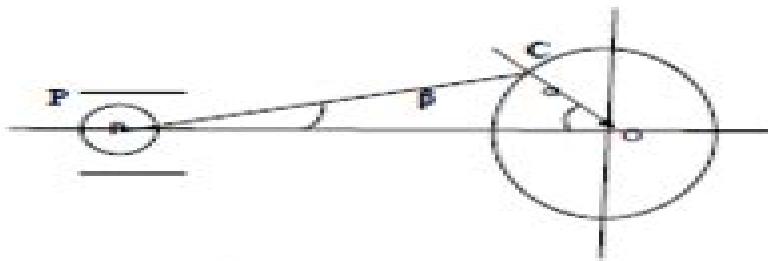
**TIME: 2 Hours**

**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)  $V_c \cos(90^\circ - \alpha + \beta) \cos\beta$       (B)  $V_c \cos(90^\circ - \alpha + \beta) \sec\beta$   
(C)  $V_c \cos(90^\circ - \alpha - \beta) \cos\beta$       (D)  $V_c \cos(90^\circ - \alpha - \beta) \sec\beta$

**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) 250MPa      (C) 314MPa      (D) 330MPa

**Q.3.** 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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