

STATICS Part Papers. Answers to Numerical Problems.

Jan 2020

- 1 73.4° , 25.2°
- 2 1.314 Nm CCW , 3.62 Nm CW
- 3 395 N , 97.0 N , 262 N
- 4 10.22 kN , 2.62 kN
- 5 68.3 kN to the right @ 16.7° below horizontal
 76.2 kN to the left @ 30.9° above horizontal
- 6 4410 kg
- 7 4.75 kN , 2.75 kN
- 8 24.6 Nm , 26.4 Nm , 27.3 Nm
- 9 633 N , $680\hat{i} + 2340\hat{j} \text{ N}$, 2440 N ,
 $420\hat{i} + 1740\hat{j} + 196.2\hat{k} \text{ N}$, 1816 N
- 10 -2.07 L (C)

Feb 2021

- 1 $448 \text{ N} \downarrow$ & 86.6 Nm CW ; 193 mm ; $A_x = 0$, $A_y = 448 \text{ N} \uparrow$, 86.6 Nm CCW ;
 $A_x = 495 \text{ N} \rightarrow$, $A_y = 943 \text{ N} \uparrow$, 581 Nm CCW ; 519 N
- 2 4.91 Nm CCW ; 24.5 Nm CW ; $-76.6\hat{i} + 245\hat{j} + 50\hat{k} \text{ Nm}$
- 3 $A_y = 2.17 \text{ L}$, $A_x = 0.707 \text{ L}$, $D_y = 1.54 \text{ L}$; $AB = 135.1 \text{ N (C)}$,
 $AE = 67.6 \text{ N (T)}$, $BE = 97.0 \text{ N (T)}$, $BC = 134.1 \text{ N (C)}$, $ED = 164.6 \text{ N (T)}$,
 $CD = 108.2 \text{ N (C)}$.
- 4 $DA = 482 \text{ N (C)}$, $DC = 666 \text{ N (C)}$, $DB = 1018 \text{ N (T)}$
- 5 $(-36.7, -15.0) \text{ mm}$, 5 mm , 63.9 kg
- 6 $A_y = 12.5 \text{ kN}$, $B_x = 21.5 \text{ kN}$
- 7 397.4 kN
- 8 237 N

Mechanical Engineering Mathematics Past Year Papers 20

CO Houle



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