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	0	ABC	0	60 C)	*	4
-	Estimate the CRSS value required to initiate slip in a perfect Cu crystal. The shear modulus of Cu is 48 GPa. C. 15.2 GPa D. 7.6 GPa A. 8 GPa B. 24 GPa C. 15.2 GPa	Yield strength of a metal can be increased by (a) alloying (6) reducing the grain size (e) plastic deformation (d) reducing the crack size	For a Diamond cubic structure obtain the effective number of atoms/cell. (2 Marks) A. 1 B. 2 C. 4 (D. 8)	Steady state creep rate in sample A compared to that in sample B is A. higher B. equal C. lower A. higher B. equal C. lower	4. In the following FCC crystal, the stress in the loading direction is 50 MPa, calculate the resolved shear stress in the indicated slip system (2 Marks) A. 0 MPa B. 14.3 MPa C. 23.6 MPa D. 36.8 MPa	5. What kind or nature of stress field is present around an edge dislocation (1 Marks) A. Principal stress C. Mixed principal and shear stress B. Shear stress D. None
	10.	1-	12.	13.	1-	-

Rough Work