

GATE 2024 Mechanical (ME) Daily Practice Questions

Question 1: A final examination is the ______ of a series of evaluations that a student has to go through

- 1. Culmination
- 2. Consultation
- 3. Desperation
- 4. Insinuation

Question 2: The fluidity of molten metal of cast alloys (without any addition of fluxes) increases with increase in

- 1. Viscosity
- 2. Surface Tension
- 3. Freezing Range
- 4. Degree of Superheat

Question 3:. The cold-forming process in which a hardened tool is pressed against a workpiece (when there is relative motion between the tool and the workpiece) to produce a roughened surface with a regular pattern is

- 1. Roll Forming
- 2. Strip Rolling
- 3. Knurling
- 4. Chamfering

Question 4: A wire of circular cross-section of diameter 1.0 mm is bent into a circular arc of radius 1.0 m by application of pure bending moments at its ends. The Young's modulus of the material of the wire is 100 GPa. The maximum tensile stress developed in the wire is MPa.



Question 5: Water enters a circular pipe of length L = 5.0 m and diameter D = 0.20 m with Reynolds number ReD = 500. The velocity profile at the inlet of the pipe is uniform while it is parabolic at the exit. The Reynolds number at the exit of the pipe is ______.

