

Delhi Cantonment Board AE Mechanical 2026

Sample Questions: 10 | Sections: 10

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General Intelligence and Reasoning

Q.1 | 1 question

Q.1 Statements: $P > Q \geq R, R > S, S \geq T$.

Conclusions:

I. $R > T$

II. $P > S$

(A) Both I and II follow

(B) Only I follows

(C) Only II follows

(D) Neither I nor II follows

General Awareness

Q.2 | 1 question

Q.2 Kathakali is a classical dance form associated with which state?

(A) Manipur

(B) Kerala

(C) Odisha

(D) Andhra Pradesh

Arithmetical and Numerical Ability

Q.3 | 1 question

Q.3 A trader sells an article at a loss of 12%. Had he sold it for Rs. 270 more, he would have gained 3%. The cost price of the article is

- (A) Rs. 1620 (B) Rs. 1800 (C) Rs. 2000 (D) Rs. 1500

English Comprehension

Q.4 | 1 question

Q.4 Choose the correct passive form of the sentence: The committee will announce the results tomorrow.

- (A) The results will have been announced by the committee tomorrow.
(B) The results are announced by the committee tomorrow.
(C) The results will be announced by the committee tomorrow.
(D) The results would be announced by the committee tomorrow.

Thermodynamics

Q.5 | 1 question

Q.5 For an ideal gas undergoing the polytropic process $pv^n = C$, the process is isothermal when n equals

- (A) 0 (B) 1 (C) γ (D) ∞

Fluid Mechanics

Q.6 | 1 question

Q.6 Boundary layer separation occurs when the pressure gradient along the surface is

- (A) favourable, with the free stream accelerating
(B) favourable, with pressure falling downstream
(C) adverse, with pressure rising downstream
(D) zero, with pressure uniform along the wall

Strength of Materials

Q.7 | 1 question

Q.7 For columns of the same material, length and section, which end condition gives the highest Euler crippling load?

- (A) One end fixed, one hinged (B) One end fixed, one free
(C) Both ends hinged (D) Both ends fixed

Theory of Machines

Q.8 | 1 question

- Q.8** According to Grashof's law, for at least one link of a four-bar chain to make a complete rotation, the sum of the shortest and longest links must be
- (A) equal to twice the length of shortest link
 - (B) not more than the sum of the other two links
 - (C) greater than the sum of the other two links
 - (D) not less than the sum of the other two links

Machine Design

Q.9 | 1 question

- Q.9** A single plate clutch has two friction surfaces, $\mu = 0.3$, axial force 1000 N and mean radius 0.1 m. Using uniform wear, the torque transmitted is
- (A) 60 N m (B) 600 N m (C) 30 N m (D) 120 N m

Manufacturing Processes

Q.10 | 1 question

- Q.10** Which process produces long products of constant cross-section by pushing a heated billet through a die opening?
- (A) Rolling (B) Wire drawing (C) Extrusion (D) Forging

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