

GATE-2015 Aerospace Engineering (AE)

General Aptitude (GA)

1. Choose the appropriate word/phase, out of the four options given below, to complete the following sentence:

Apparent lifelessness _____ dormant life.

- (A) Harbours (B) leads to (C) supports (D) affects

2. Fill in the blanks with the correct idiom/phrase.

That boy from the town was a _____ in the sleepy village.

- (A) dog out of herd (B) sheep from the heap
(C) fish out of water (D) bird from the flock

3. Choose the statement where underlined word is used correctly.

- (A) When the teacher eludes to different authors, he is being elusive.
(B) When the thief keeps eluding the police, he is being elusive.
(C) Matters that are difficult to understand, identify or remember are allusive.
(D) Mirages can be allusive, but a better way to express them is illusory.

4. Tanya is older than Eric.

Cliff is older than Tanya.

Eric is older than Cliff.

If first two statements are true, then the third statement is:

- (A) True
(B) False
(C) Uncertain
(D) Data insufficient.

5. Five teams have to compete in a league, with every team playing every other team exactly once, before going to the next round. How many matches will have to be held to complete the league round of matches?

- (A) 20 (B) 10 (C) 8 (D) 5

6. Select the appropriate option in place of underlined part of the sentence.

Increased productivity necessary reflects greater efforts made by the employees.

- (A) Increase in productivity necessary.
(B) Increase productivity is necessary.
(C) Increase in productivity necessarily.
(D) No improvement required.

7. Given below are two statements followed by two conclusions. Assuming these statements to be true, decide which one logically follows.

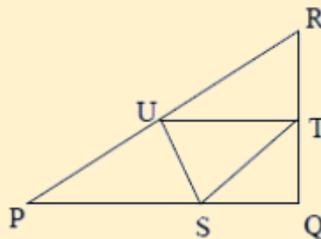
Statements:

- I. No manager is a leader.
- II. All leaders are executives.

Conclusions:

- I. No manager is an executive.
- II. No executive is a manager.
- (A) Only conclusion I follows.
- (B) Only conclusion II follows.
- (C) Neither conclusion I nor II follows.
- (D) Both conclusions I and II follow.

8. In the given figure angle Q is a right angle, PS:QS = 3:1, RT:QT = 5:2 and PU:UR = 1:1. If area of triangle QTS is 20 cm², then area of triangle PQR in cm² is _____



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9. Right triangle PQR is to be constructed in the xy-plane so that the right angle is at P and line PR is parallel to x axis. The x and y coordinates of P, Q and R are to be integers that satisfy the inequalities: $-4 \leq x \leq 5$ and $6 \leq y \leq 16$. How many different triangles could be constructed with these properties?

- (A) 110
- (B) 1,100
- (C) 9,900
- (D) 10,000

10. A coin is tossed thrice. Let X be the event that head occurs in each of the first two tosses. Let Y be the event that a tail occurs on the third toss. Let Z be the event that two tails occur in three tosses. Based on the above information, which one of the following statements is TRUE?

- (A) X and Y are not independent
- (B) Y and Z are dependent
- (C) Y and Z are independent
- (D) X and Z are independent

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11. The partial differential equation $\frac{\partial u}{\partial t} + \frac{\partial(\frac{u^2}{2})}{\partial x} = 0$ is

- (A) linear and first order
- (B) linear and second order
- (C) non-linear and first order
- (D) non-linear and second order

12. The systems of equations for the variables x and y

$$ax + by = e$$

$$cx + dy = f$$

has a unique solution only if

- (A) $ad - bc \neq 0$
- (B) $ac - bd \neq 0$

(C) $a + c \neq b + d$

(D) $a - c \neq b - d$

13. A linear mass-spring-dashpot system is over-damped. In free vibration, this system undergoes

(A) non-oscillatory motion

(B) random motion

(C) Oscillatory and periodic motion

(D) oscillatory and non-periodic motion

14. A cantilever with thin-walled channel cross section is subjected to a lateral force at its shear center. The cantilever undergoes

(A) bending without twisting

(B) bending and twisting

(C) neither bending nor twisting

(D) twisting without bending

15. The two non-zero principal stresses at a point in a thin plate are $\sigma_1 = 25 \text{ MPa}$ and $\sigma_2 = -25 \text{ MPa}$. The maximum shear stress (in MPa) at this point is _____

16. Consider the density and altitude at the base of an isothermal layer in the standard atmosphere to be ρ_1 and h_1 , respectively. The density variation with altitude (ρ versus h) in that layer is governed by (R: specific gas constant, T: temperature, g_o : acceleration due to gravity at sea level)

(A) $\frac{\rho}{\rho_1} = e^{-\left[\frac{g_o}{RT}\right](h-h_1)}$

(B) $\frac{\rho}{\rho_1} = e^{-\left[\frac{g_o}{RT}\right](h_1-h)}$

(C) $\frac{\rho}{\rho_1} = e^{-\left[\frac{RT}{g_o}\right](h-h_1)}$

(D) $\frac{\rho}{\rho_1} = e^{-\left[\frac{RT}{g_o}\right](h_1-h)}$

17. For constant free stream velocity and density, a change in the lift for a large aspect ratio straight wing with thin chambered airfoil section at small angles of attack leads to

(A) a shift of the aerodynamic center and no shift of the center of pressure

(B) a shift of the center of pressure and no shift of the aerodynamic center

(C) shift of both the aerodynamic center and the center of pressure

(D) no shift either of the aerodynamic center or the center of pressure

18. Which one of the following modes of a stable aircraft has non-oscillatory response characteristics?

(A) Short period

(B) Phugoid

(C) Dutch Roll

(D) Spiral

19. As a candidate for a vertical tail, which one of the following airfoil sections is appropriate?

(A) NACA 0012 (B) NACA 2312 (C) NACA 23012 (D) Clarke Y profile

20. The primary purpose of a trailing edge flap is to

(A) avoid flow separation

(B) increase $C_{l,max}$

(C) reduce wave drag

(D) reduce induced drag

21. Which one of the following aero engines has the highest propulsive efficiency?

(A) Turbojet engine without afterburner

(B) Turbojet engine with afterburner

(C) Turbofan engine

(D) Ramjet engine

22. The stoichiometric fuel-to-air ratio in an aircraft engine combustor varies with the compressor pressure ratio as follows:

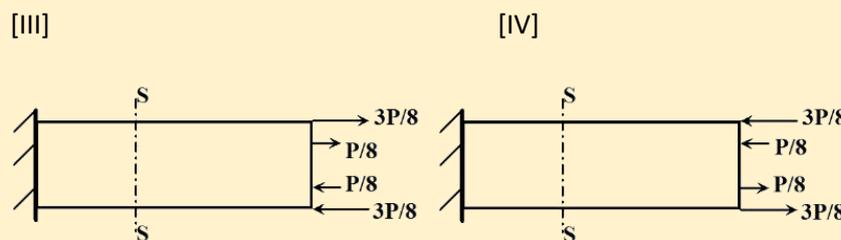
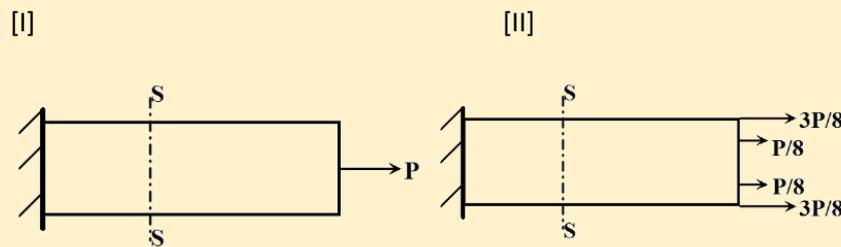
- (A) increases linearly (B) decreases linearly
 (C) is independent (D) increases non-linearly

23. A rocket engine produces a total impulse of 112 kN.s in a burn time period of 3.5 minutes with a propellant mass flow rate of 0.25 kg/s. The effective exhaust velocity (in m/s) of gas ejecting from the engine is _____.

24. The function $y = x^3 - x$ has
 (A) no inflection point (B) one inflection point
 (C) two inflection point (D) three inflection points

25. A 0.5 kg mass is suspended vertically from a point fixed on the Earth by a spring having a stiffness of 5 N/mm. The static displacement (in mm) of the mass is _____.

26. A slender structure is subjected to four different loading cases (I, II, III and IV) as shown below (Figures not to scale). Which pair of cases results in identical stress distribution at section $S - S$ located far away from both ends?



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- (A) I and II (B) II and III (C) III and IV (D) IV and I

27. An aircraft in level and unaccelerated flight with a velocity of $v_\infty = 300 \text{ m/s}$ requires a power of $9 \times 10^6 \text{ W}$. If the aircraft weighs $1.5 \times 10^5 \text{ N}$, the lift-to-drag ratio $\frac{L}{D}$ is _____.

28. The percentage change in the lift-off distance for a 20% increase in aircraft weight is _____.

29. Consider a monoplane wing and a biplane wing with identical airfoil sections, wingspans and incidence angles in identical conditions in a wind tunnel. As compared to the monoplane, the biplane experiences

- (A) a higher lift and a higher drag (B) a higher lift and lower drag
 (C) a lower lift and lower drag (D) a lower lift and a higher drag

30. A statically stable trimmed aircraft experiences a gust and the angle of attack reduces momentarily. As a result, the center of the pressure of the aircraft
(A) shifts forward (B) shifts rearward
(C) does not shift (D) coincide with neutral point

31. Consider a wing of elliptic platform, with its aspect ratio $AR \rightarrow \infty$. Its lift-curve slope, $\frac{dC_L}{d\alpha} = \underline{\hspace{2cm}}$.

32. An ideal gas in a reservoir has a specific stagnation enthalpy of h_0 . The gas is isentropically expanded to a new specific stagnation enthalpy of $\frac{h_0}{2}$ and velocity u . The flow is one dimensional and steady. Then $\frac{u^2}{h_0} = \underline{\hspace{2cm}}$.

33. The Reynolds number, Re is defined as $\frac{U_\infty L}{\nu}$ where L is the length scale for a flow, U_∞ is its reference velocity and ν is the coefficient of kinematic viscosity. In the laminar boundary layer approximation, comparison of the dimensions of the convection term $u \frac{\partial u}{\partial x}$ and the viscous term $\nu \frac{\partial^2 u}{\partial x^2}$ leads to the following relation between the boundary layer thicknesses δ and Re .

- (A) $\delta \propto \sqrt{Re}$ (B) $\delta \propto 1/\sqrt{Re}$ (C) $\delta \propto Re$ (D) $\delta \propto 1/Re$

34. Isentropic efficiencies of an aircraft engine operating at typical subsonic cruise conditions with the following components – intake, compressor, turbine and nozzle – are denoted by η_i , η_c , η_t and η_n respectively. Which one of the following is correct?

- (A) $\eta_i < \eta_c < \eta_t < \eta_n$ (B) $\eta_t < \eta_i < \eta_c < \eta_n$
(C) $\eta_c < \eta_t < \eta_i < \eta_n$ (D) $\eta_c < \eta_i < \eta_t < \eta_n$

35. A rocket nozzle is designed to produce maximum thrust at an altitude. $H = 8$ km from the sea level. The nozzle operates in

- (A) under-expanded condition for $H > 8$ km
(B) under-expanded condition for $H < 8$ km
(C) sonic exit condition for $H > 8$ km
(D) unchoked condition for $H < 8$ km

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36. In the solution of $\frac{d^2y}{dx^2} - 2\frac{dy}{dx} + y = 0$, if the values of the integration constants are identical and one of the initial conditions is specified as $y(0) = 1$, the other initial conditions $y'(0) = \underline{\hspace{2cm}}$.

37. For $x > 0$, the general solution of the differential equation $\frac{dy}{dx} = 1 - 2y$ asymptotically approaches $\underline{\hspace{2cm}}$.

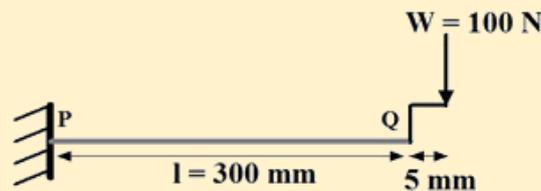
38. For a parabola defined by $y = ax^2 + bx + c$, $a \neq 0$. The coordinates (x, y) of the extremum are

- (A) $\left(-\frac{b}{2a} + \frac{\sqrt{b^2 - 4ac}}{2a}, 0\right)$ (B) $\left(-\frac{b}{2a}, \frac{-b^2 + 4ac}{2a}\right)$
(C) $\left(-\frac{b}{2a}, \frac{-b^2 + 4ac}{4a}\right)$ (D) $(0, c)$

39. The 2-D stress at a point P in the x-y coordinate system is $\begin{bmatrix} 60 & 50 \\ 50 & -40 \end{bmatrix} \text{MPa}$. The magnitude of the tangential stress (in MPa) on a surface normal to the x-axis at P is _____.

40. A cube made of a linear elastic isotropic material is subjected to uniform hydrostatic pressure of 100 N/mm^2 . Under this load, the volume of the cube shrinks by 0.05%. The Young's Modulus of the material, $E = 300 \text{ GPa}$. The Poisson's ratio of the material is _____.

41. A massless cantilever beam PQ has a solid square cross-section (10 mm x 10 mm). This beam is subjected to a load W through a rigid massless link at the point Q, as shown below (figure not to scale). If the Young's Modulus of the material $E = 200 \text{ GPa}$, the deflection (in mm) at point Q is _____.



42. An aircraft with a wing loading $\frac{W}{s} = 500 \text{ N/m}^2$, is gliding at $\left(\frac{L}{D}\right)_{max} = 10$ and $C_L = 0.69$. Considering the free stream density $\rho_\infty = 0.9 \text{ kg/m}^3$, the equilibrium glide speed (in m/s) is _____.

43. For a thin flat plate at 2 degrees angle of attack, the pitching moment coefficient about the trailing edge is _____.

44. A satellite is to be transferred from its geostationary orbit to a circular polar orbit of the same radius through a single impulse out-of-plane maneuver. The magnitude of the change in velocity required is _____ times the magnitude of the escape velocity.

45. A planetary probe is launched at a speed of 200 km/s and at a distance of 71,400 km from the mass center of its nearest planet of mass $1.9 \times 10^{28} \text{ kg}$. The gravitational constant, $G = 6.67 \times 10^{-11} \frac{\text{m}^3}{\text{kg s}^2}$. The ensuing path of the probe would be

- (A) elliptic (B) hyperbolic (C) parabola (D) circular

46. The velocity profile of an incompressible laminar boundary layer over a flat plate developing under constant pressure is given by $\frac{u(y)}{U_\infty} = \frac{3y}{2\delta} - \frac{1}{2}\left(\frac{y}{\delta}\right)^3$. The freestream velocity $U_\infty = 10 \text{ m/s}$ and the dynamic viscosity of the fluid $\mu = 1.8 \times 10^{-5} \frac{\text{kg}}{\text{ms}}$. At a streamwise station where the boundary layer thickness $\delta = 5 \text{ mm}$, the wall shear stress is _____ $\times 10^{-3} \text{ Pa}$.

47. The pitot tube of an aircraft registers a pressure $p_o = 54051 \text{ N/m}^2$. The static pressure, density and the ratio of specific heats of the freestream are $p_\infty = 45565 \text{ N/m}^2$, $\rho_\infty = 0.6417 \text{ kg/m}^3$ and $\gamma = 1.4$ respectively. The indicated airspeed (in m/s) is

- (A) 157.6 (B) 162.6 (C) 172.0 (D) 182.3

48. Consider a NACA 0012 aerofoil of chord c in a freestream with a velocity V_∞ at a non-zero positive angle of attack α . The average time-of-flight for a particle to move from the leading edge to the trailing

edge on the suction and the pressure side are t_1 and t_2 , respectively. Thin aerofoil theory yields the velocity perturbation to the freestream as $V_\infty \frac{(1+\cos\theta)\alpha}{\sin\theta}$ on the suction side and as $-V_\infty \frac{(1+\cos\theta)\alpha}{\sin\theta}$ on the pressure side, where θ corresponds to the chordwise position, $x = \frac{c}{2}(1 - \cos\theta)$. Then $t_2 - t_1$ is

- (A) $-\frac{8\pi\alpha c}{V_\infty(4-\pi^2\alpha^2)}$ (B) 0 (C) $\frac{4\pi\alpha c}{V_\infty(4-\pi^2\alpha^2)}$ (D) $\frac{8\pi\alpha c}{V_\infty(4-\pi^2\alpha^2)}$

49. Air enters an aircraft engine at a velocity of 180 m/s with a flow rate of 94 kg/s. The engine combustor requires 9.2 kg/s of air to burn 1 kg/s of fuel. The velocity of gas exiting from the engine is 640 m/s. The momentum thrust (in N) developed by the engine is

- (A) 43241 (B) 45594 (C) 47940 (D) 49779

50. A solid rocket motor is designed with a cylindrical end-burning propellant grain of length 1 m and diameter 32 cm. The density of the propellant grain is 1750 kg/m^3 . The specific impulse of the motor is 190 s and the acceleration due to gravity is 9.8 m/s^2 . If the propellant burns for a period of 150 s, Then the thrust (in N) produced by the rocket motor is _____.

51. A liquid propellant rocket has the following component masses:

| | |
|--------------------------|----------|
| Mass of payload | =180 kg |
| Mass of fuel | =470 kg |
| Mass of oxidizer | =1170 kg |
| Mass of structures | =150 kg |
| Mass of guidance systems | =20 kg |

The effective exhaust velocity is 3136 m/s. The velocity increment (in km/s) of the rocket at burnout, while operating in outer space, is _____.

52. If all the eigenvalues of a matrix are real and equal, then

- (A) the matrix is diagonalizable
(B) its eigenvectors are not necessarily linearly independent
(C) its eigenvectors are linearly independent
(D) its determinant is necessarily zero

53. The value of the integral $\int_1^2 (4x^3 + 3x^2 + 2x + 1)dx$ evaluated numerically using Simpson's rule with one step is

- (A) 26.5 (B) 26 (C) 25.5 (D) 25.3

54. The following data is for a single degree of freedom system with viscous damping.

Mass, $m = 10 \text{ kg}$; spring stiffness, $k = 2.25 \text{ N/mm}$;

Damping coefficient, $c = 0.0125 \text{ Ns/mm}$.

The ratio of any two successive amplitude is _____.

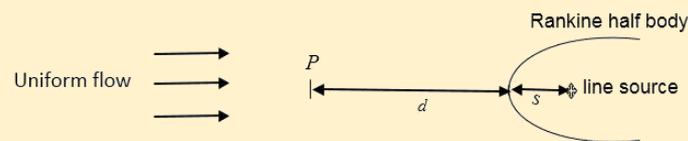
55. Determine the correctness or otherwise of the following assertion [a] and the reason[r];

Assertion[a]: Aircraft directional stability can be improved by moving the vertical tail rearward.

Reason[r]: Moving the vertical tail rearward increases the moment arm from the tail aerodynamic center to the aircraft center of gravity.

- (A) Both [a] and [r] are true and [r] is the correct reason for[a]
 (B) Both [a] and [r] are true but [r] is not the correct reason for[a]
 (C) Both [a] and [r] are false
 (D)[a] is true and [r] is false

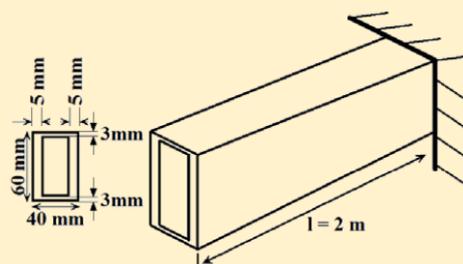
56. Consider a 2-D blunt body in an incompressible fluid stream. The flow is irrotational and can be modelled as a linear combination of a uniform flow and a line source (Rankine half body) as shown below. Let s be the distance of the line source from the front stagnation point. Let d be the upstream distance from the stagnation point to the streamwise location (labelled below as P) where the oncoming stream reaches 90% of its undisturbed velocity. Then $d/s =$ _____



57. Following are the operational parameters of an axial compressor stage:

| | |
|---|---------------|
| Air mass flow rate | =24 kg/s |
| Static temperature of air at the rotor inlet | =278 K |
| Velocity of air at the rotor inlet (zero whirl velocity) | =140 m/s |
| Work done on the compressor rotor | =734 KJ |
| Isentropic efficiency of the compressor stage | =0.86 |
| Ratio of specific heats | =1.4 |
| Specific heat at constant pressure | =1.005 kJ/kgK |
| The stagnation pressure ratio across the axial compressor stage is _____. | |

58. The thin rectangular tube shown below is made of a material with shear modulus, $G = 80$ GPa. The shear flow is calculated based on the mid-thickness dimensions. If the free end is allowed to twist no more than 0.0727 rad, then the maximum torque (in Nm). Which the tube can be subjected to at its free end is _____.



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59. A 200 mm long simply-supported column has a 5 mm \times 10 mm rectangular cross-section. The Young's modulus of the material, $E = 200$ GPa. Assuming factor of safety of 2.5 corresponding to the buckling load, the maximum load (in N) the column can support in compression is _____.

60. For a level flight at cruise altitude, $C_D = 0.018$ with drag coefficient at zero lift, $C_{D,0} = 0.015$. For a 30° climb at the same altitude and speed, $C_D =$ _____ $\times 10^{-3}$.

61. An aircraft is flying with inertial ground and wind speeds of $\vec{v}_g^b = (100, 5, 5) \text{ m/s}$ and $\vec{v}_w^b = (0, -5, -10) \text{ m/s}$, respectively, as expressed in the body frame. The corresponding sideslip angle (in degrees) is

- (A) 0 (B) 5.65 (C) 8.49 (D) 9.54

62. The elliptical area swept by a satellite is $5.6 \times 10^9 \text{ km}^2$ in one full orbit. Its angular speed is observed to be 0.00125 rad/s when it is at a distance of $7,200 \text{ km}$ from the center of mass of its primary. Its orbital period (in Earth days) is _____.

63. For a normal shock, the relation between the upstream Mach number (M_1) and the downstream Mach number (M_2) is given by $M_2^2 = \frac{(\gamma-1)M_1^2+2}{2\gamma M_1^2+1-\gamma}$. For an ideal gas with $\gamma = 1.4$, the asymptotic value of the downstream Mach no is _____.

64. A centrifugal air compressor is operating at the following conditions:

- Inlet stagnation temperature = 288 K
Inlet stagnation pressure = 1.15 bar
Exit stagnation temperature = 454 K
Exit stagnation pressure = 4.8 bar

The energy loss due to non-isentropic compression per unit mass of flowing air (ratio of specific heats, $\gamma = 1.4$ and specific heat at constant pressure, $C_p=1.005 \text{ kJ/kgK}$) is _____ kJ/kg.

65. Hot gas (ratio of specific heats, $\gamma = 1.33$) at a temperature of 1450 K enters into an axial turbine and expands isentropically. Assume that the kinetic energy of the gas across the turbine is negligible. If the ratio of the inlet to outlet pressures of the turbine is 9.5 , then the temperature (in K) of gas exiting the turbine is _____.

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| 25 AIR Krishna | 36 AIR Manasa | 42 AIR David | 62 AIR Vishal | 66 AIR Sahil | 81 AIR Prutvi Raj | 98 AIR Akhilesh | 98 AIR Avishi | 98 AIR Chouse | 109 AIR Surya |
| 118 AIR K somesh | 134 AIR Sri Sai | 140 AIR Spandan | 148 AIR Bala V | 162 AIR Bhagya Lakshmi | 173 AIR Riya | 189 AIR Ravi | 226 AIR Megha | 258 AIR Dhruv | 328 AIR Dinesh |
| 339 AIR Veesh | 390 AIR Ritu Raj | 404 AIR Pradeep | 486 AIR Girish | 626 AIR Mandeep | | | | | |

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| 95 AIR | 100 AIR | 128 AIR | 138 AIR | 151 AIR | 155 AIR |
| 168 AIR | 175 AIR | 198 AIR | 230 AIR | 242 AIR | |
| | | 245 AIR | 247 AIR | 260 AIR | |

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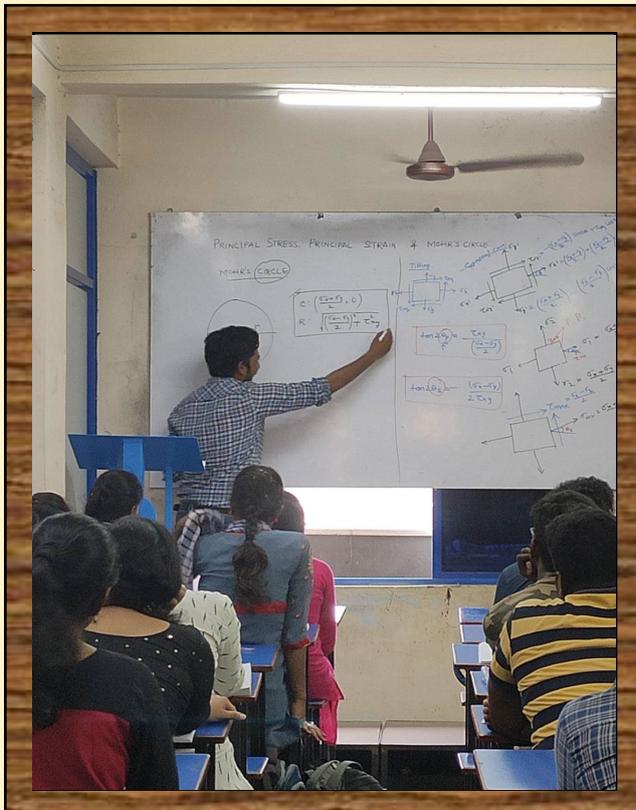


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