1. A is a 2×2 matrix with det A = 2. The det(2A) is

	(a) 4	(b) 8	(c) 32	(d) 16
				(GATE EE 2025)
2.	A is a 2×2 matrix give	n below: $\begin{pmatrix} -3 & 1 \\ -1 & -1 \end{pmatrix}$ The	eigenvalues of A are	
		(b) $-3, -1$		(d) 3, 1
				(GATE EE 2025)
3.	-	umber of rods are tested,		m and standard deviation ntage of rods whose sizes
	(a) 68	(b) 75	(c) 90	(d) 99.7
				(GATE EE 2025)
4.	Which one of the follow	ving methods is NOT use	d for numerical integrat	ion?
	(a) Rectangular rule	(b) Trapezoidal rule	(c) Simpson's rule	(d) Cramer's rule
				(GATE EE 2025)
5.	How many boundary co	onditions are required to	solve the following equa	tion?
		227 1 6	0.T. 1.0T.	
		$\frac{\partial^2 I}{\partial r^2} + \frac{1}{r} \frac{\partial}{\partial r}$	$\frac{\partial T}{\partial r} = \frac{1}{\alpha} \frac{\partial T}{\partial t}$	
	(a) Two in r -direction		(c) Two in r -direction	on and one for time
	(b) One in r -direction	and one for time	(d) Three in r -direct	ion and one for time
				(GATE EE 2025)
6.	When a zinc metal rod i	s immersed in dilute hyd	rochloric acid, it results	in
	(a) Evolution of hydro	ogen	(c) Evolution of oxy	gen
	(b) Evolution of chlor	ine	(d) No evolution of a	any gas
				(GATE EE 2025)
7.	•	a velocity of 0.5 m/s on ocity at the interface of t		elocity of 0.01 m/s in the
	(a) 0.0 m/s	(b) 0.01 m/s	(c) 0.255 m/s	(d) 0.50 m/s
				(GATE EE 2025)
8.		poured in a sand mould	that is open at the top.	Heat loss from the liquid
MT	metal takes place by			1/??
***				1/••

	(a)	Radiation only		(c)	Radiation and conve	ectio	on only	
	(b)	Radiation and cond	uction only	(d)	Radiation, conduction	on a	nd conve	etion
							(GATE I	EE 2025)
9.	Whic	ch one of the followi	ng is an equilibrium defe	ect?				
	(a)	Vacancies	(b) Dislocations	(c)	Stacking faults	(d)	Grain aries	bound-
							(GATE I	EE 2025)
10.	Float	ation beneficiation i	s based on the principle	of				
	(a)	Mineral surface hyd	lrophobicity	(c)	Chemical reactivity			
		Gravity difference	1 3		Particle size differen	ıce		
							(GATE I	EE 2025)
11.	Copr	oer can be reduced fr	om acidic copper sulpha	ite so	lution by			,
					•	<i>(</i> 1)		
	(a)	Silver	(b) Iron	(c)	Carbon	(d)	Lead	
							(GATE I	EE 2025)
12.	Whic	ch one is NOT an ag	glomeration process?					
	(a)	Nodulizing	(b) Briquetting	(c)	Roasting	(d)	Pelletizi	ng
							(GATE I	EE 2025)
13.	Duri	ng LD blow in steelr	making the impurity that	gets	removed first is			
	(a)	Carbon	(b) Phosphorous	(c)	Manganese	(d)	Silicon	
							(GATE I	EE 2025)
14.		quid-solid interface	of a pure metal, it was to is at the melting temperature.					
	(a)	Decreases		(c)	Remains constant			
	(b)	Increases		(d)	Increases and then o	lecre	eases	
							(GATE I	EE 2025)
15.	A pe	ak in the X-ray diffra	action pattern is observe	d at 2	$\theta = 78^{\circ}$, correspond	ing t	to {311} i	planes of
	_	•	cident beam has a wavel		_	_		_

MT 2/??

metal is approximately

(a) 0.6 nm	(b) 0.4 nm	(c) 0.3 nm	(d) 0.2 nm	
			(GATE EE 2025)	
16. If <i>d</i> is the intended <i>n</i> being an in	er-planar spacing of the planes ateger, is	$\{hkl\}$, the inter-planar space	cing of the planes $\{nhnknl\}$,	
(a) <i>d</i>	(b) <i>d</i> / <i>n</i>	(c) <i>nd</i>	(d) d/n^2	
			(GATE EE 2025)	
17. As temperatu tors (ρ_s) vary	ure increases, the electrical resign as follows	stivities of pure metals (ρ_n	n) and intrinsic semiconduc-	
(a) Both ρ_{i}	$_m$ and ρ_s increase	(c) ρ_m increases a	and ρ_s decreases	
(b) Both ρ_n	$_m$ and ρ_s decrease	(d) ρ_m decreases	and ρ_s increases	
			(GATE EE 2025)	
18. At equilibrium spacing in a crystalline solid, which of the following is true for net inter-atomic force (F) and potential energy (U)				
(a) F is zer	ro and U is zero	(c) <i>F</i> is minimum	\mathbf{u} and U is zero	
(b) F is zero	ro and U is minimum	(d) F is minimum	\mathbf{n} and U is minimum	
			(GATE EE 2025)	
19. The property	of a material that CANNOT I	be significantly changed by	heat treatment is	
(a) Yield st	trength	(c) Ductility		
(b) Ultimat	te tensile strength	(d) Elastic modul	us	
			(GATE EE 2025)	
20. A unit dislocation splits into two partial dislocations. The correct combination of the Burgers vectors of the partial dislocations for a given unit dislocation having Burgers vector $\frac{a}{2}[\overline{1}10]$ is				
(a) $\frac{a}{6} [2\bar{1}]$	1] and $\frac{a}{6}$ [1 2 $\overline{1}$]	(c) $\frac{a}{6}[1\ \overline{1}\ 2]$ and	$\frac{a}{6}[2\ 1\ \overline{1}]$	
0 -				
o	2] and $\frac{a}{6}[\overline{1} \ 2 \ 1]$	(d) $\frac{a}{6}[2\ 1\ 1]$ and	$\frac{a}{6}[1\ 2\ \overline{1}]$	
O	2] and $\frac{a}{6}[\overline{1} \ 2 \ 1]$	(d) $\frac{a}{6}[2\ 1\ 1]$ and	$\frac{a}{6}$ [1 2 $\overline{1}$] (GATE EE 2025)	
(b) $\frac{a}{6} \begin{bmatrix} 1 \ \overline{1} \ 2 \end{bmatrix}$ 21. A polymer in direction. To volume fraction.	and $\frac{a}{6}[\overline{1}\ 2\ 1]$ matrix composite is reinforced the Youngâs moduli of the matrix of the fibres is f . Assuming in a direction perpendicular	I with long continuous ce atrix and fibres are E_m arming iso-stress condition	(GATE EE 2025) ramic fibres aligned in one and E_f respectively, and the any Youngâs modulus of the	
 (b) a/6 [1 1 2 21. A polymer in direction. T volume fract composite E₀ 	matrix composite is reinforced the Youngâs moduli of the mattion of the fibres is f . Assume	I with long continuous ce atrix and fibres are E_m arming iso-stress condition	(GATE EE 2025) gramic fibres aligned in one and E_f respectively, and the any Youngâs modulus of the given by the expression	

(GATE EE 2025)

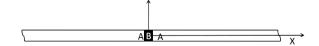
22. Which of the following is NOT a fusion welding process?

MT

	(a)	Arc welding		(c)	Resistance welding		
	(b)	Gas welding		(d)	Friction stir welding	g	
							(GATE EE 2025)
22	Tuno	estan filomant usad ir	n electric bulb is proce	seed by			
23.	Tung	sten mament used n	refectife build is proce	sseu by			
	(a)	Extrusion		(c)	Casting		
	(b)	Wire drawing		(d)	Powder metallurgy		
							(GATE EE 2025)
24.	The	riser is designed such	h that the melt in the ri	iser soli	difies		
	(a)	Before casting solid	lifies				
	(b)	At the same time as	casting solidifies				
	(c)	After casting solidit	fies				
	(d)	Irrespective of the s	solidification of the cas	sting			
							(GATE EE 2025)
25	Dadi	ography tachniqua o	f detecting defects is b	ased or	the principle of		
23.	Kaui	ography technique o	i detecting detects is o	ascu oi	i the principle of		
	(a)	Diffraction	(b) Reflection	(c)	Interference	(d)	Absorption
							(GATE EE 2025)
26.	At x	= 0.5, the polynomi	al $x^2(1-x^2)$ has				
	(a)	No extrema	(b) A saddle point	(c)	A minima	(d)	A maxima
			_				
							(GATE EE 2025)
27.		n that v is a vector ical meaning in Gro	field and f is a scalar up II	field, 1	match the equations	in G	roup I with their
	Grou	ıp 1		Grou	ıp 2		
	(P)	$\operatorname{div}\left(\mathbf{v}\right)=0$		(1)	Irrotational		
		$\operatorname{curl}\left(\operatorname{grad}(f)\right) = 0$			Incompressible		
		$\operatorname{div}\left(\operatorname{grad}(f)\right) = 0$			Potential		
	(S)	$\mathbf{v} = \operatorname{grad}(f)$		(4)	Laplace equation		
	(a)	P-1, Q-2, R-3, S-4		(c)	P-1, Q-3, R-2, S-4		
	(b)	P-2, Q-1, R-4, S-3		(d)	P-2, Q-1, R-3, S-4		
							(GATE EE 2025)
28.	The	temperature field of	a slab is given by T :	= 400 -	$-50z \exp(-t - x^2 -$	y^{2}).	The temperature

MT 4/??

gradient in y-direction is



(a) $100yz \exp(-t - x^2 - y^2)$

- (c) $100xz \exp(-t x^2 y^2)$
- (b) $-100yz \exp(-t x^2 y^2)$
- (d) $-100xz \exp(-t x^2 y^2)$

(GATE EE 2025)

29. What does the solution of the following ordinary differential equation represent?

$$y\frac{dy}{dx} + x = 0 ag{1}$$

(a) A parabola

(c) An ellipse

(b) A circle

(d) A hyperbola

(GATE EE 2025)

- 30. A thin layer of material B (of total amount m) is plated on the end faces of two long rods of material A. These are then joined together on the plated side (see the figure below) and heated to a high temperature. Assuming the diffusion coefficient of B in A is D, the composition profile c_B along the rod axis x after a time t is described by
 - (a) $c_B = \frac{m}{2\sqrt{\pi Dt}} \exp\left[-\frac{x^2}{4Dt}\right]$
- (c) $c_B = \frac{m}{2\sqrt{\pi Dt}} \left[1 \operatorname{erf} \left(-\frac{x^2}{4Dt} \right) \right]$
- (b) $c_B = \frac{m}{2\sqrt{\pi Dt}} \operatorname{erf} \left[-\frac{x^2}{4Dt} \right]$
- (d) $c_B = \frac{m}{2\sqrt{\pi Dt}}t$

(GATE EE 2025)

31. Match the principles given in Group I with corresponding corrosion terminology in Group II

Group 1

MT

(Q) Passivity

- (P) Electrode polarization
- (1) Electrode polarization
- (R) Selective leaching
- (S) Grain boundary precipitation
- (a) P-3, Q-4, R-1, S-2
- (b) P-3, Q-4, R-2, S-1

Group 2

- (1) Dezinfication
- (2) Intergranular attack
- (3) Over voltage
- (4) Surface oxide film
- (c) P-4, Q-2, R-1, S-3
- (d) P-2, Q-1, R-4, S-3

(GATE EE 2025)

- 32. Identify the correct combination of the following statements
 - P. Hydrogen electrode is a standard used to measure redox potentials
 - Q. Activation polarization refers to electrochemical processes controlled by reaction sequence at metal-solution interface
 - R. Potential-pH diagrams can be used to predict corrosion rates of metals
 - S. Cathodic protection can use sacrificial anodes such as magnesium

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(a) P, Q and R

(c) P, Q and S

(b) Q, R and S

(d) P, R and S

(GATE EE 2025)

33. Consider a reaction with activation energy of 8.314 kJ/mol that takes place at 300 K. If the reaction rate is to be tripled, the temperature of the reaction should be

(a) 174.5 K

(c) 600.5 K

(b) 447.5 K

(d) 847.5 K

(GATE EE 2025)

34. Match the processes in **Group I** with the objectives in **Group II**

Group 1

Group 2

- (P) Vacuum Arc Degassing (VAD)
- (1) Primary iron making

(Q) LD

(2) Secondary steel making(3) Direct smelting

(R) COREX

(4) Primary steel making

(S) Blast Furnace

(a) P-3, Q-4, R-2, S-1

(c) P-3, Q-2, R-1, S-4

(b) P-4, Q-3, R-1, S-2

(d) P-2, Q-4, R-3, S-1

(GATE EE 2025)

35. The reduction of FeO with CO gas in co-current flow is given by the following equation:

$$FeO + CO = Fe + CO_2$$

$$\Delta G^{\circ} = 8120 \text{ J at } 1173 \text{ K}$$

The ratio of P_{CO}/P_{CO_2} for this reaction at 1173 K is

(a) 0.0

(c) 0.44

(b) 0.25

(d) 2.3

(GATE EE 2025)

36. The sulphide capacity (C_S) of liquid slag of composition 55 wt.% CaO, 20 wt.% SiO₂, 15 wt.% Al₂O₃, and 10 wt.% MgO is given by the following equation

$$\log C_S = -3.44 \left(X_{CaO} + 0.1 X_{MgO} - 0.8 X_{Al_2O_3} - X_{SiO_2} \right) - \frac{9894}{T} + 2.05$$

where, *X* is mole fraction of the respective components. Atomic weights of Ca, Mg, Si, Al and O are 40, 24, 28, 27 and 16 respectively.

The value of C_S at 1900 K is

(a) 0.0009

(c) 0.09

(b) 0.009

(d) 0.9

(GATE EE 2025)

6/??

37. Match the processes given in **Group I** with the corresponding metals in **Group II**

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MAIN PAPER-MT Group 1 Group 2 (P) Matte smelting (1) Lead (Q) Cyanide leaching (2) Copper (R) Carbothermic reduction (S) Fused salt electrolysis (3) Aluminium (4) Gold (GATE EE 2025) (a) P-1, Q-2, R-1, S-4 (c) P-2, Q-1, R-3, S-4 (b) P-2, Q-3, R-1, S-4 (d) P-2, Q-3, R-4, S-1 (GATE EE 2025) 38. Identify the correct combination of the following statements P. Bessemer converter can be used in copper smelting Q. The Mond process for nickel involves reaction of metal with H₂ gas R. Roasted ZnS concentrates can be smelted in a blast furnace S. Magnesium metal can be produced by electrolysis of sea water (a) P, R and S (c) P and Q (b) P, Q and R (d) Q and S (GATE EE 2025) 39. Match the phases of steel in **Group I** with the crystal structures in **Group II** Group 1 Group 2 (P) Martensite (1) bcc (Q) Cementite (2) fcc (R) Austenite (3) bct (S) Ferrite (4) Orthorhombic (a) P-3, Q-4, R-1, S-2 (c) P-3, Q-4, R-2, S-1 (b) P-2, Q-3, R-1, S-4 (d) P-4, Q-3, R-2, S-1 (GATE EE 2025) 40. Arrange the following in terms of increasing severity of quench P. Oil quenching Q. Water quenching

- - R. Water quenching with agitation
 - S. Brine quenching
 - (a) PiQiRiS

(c) PiQiSiR

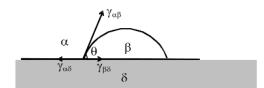
(b) $Q_iR_iP_iS$

(d) $Q_iP_iR_iS$

(GATE EE 2025)

41. Regarding recrystallization, which one of the following statements is NOT correct?

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- (a) Higher the amount of cold work, lower is the recrystallization temperature
- (b) Higher the recovery, higher is the recrystallization temperature
- (c) Higher the temperature of cold work, higher is the recrystallization temperature
- (d) Finer the initial grain size, higher is the recrystallization temperature

(GATE EE 2025)

42. A liquid droplet (β) is on a substrate (δ) and is surrounded by air (α) , as shown below. The angle of contact (θ) is determined using the following expression:

(a)
$$\theta = \cos^{-1}\left(\frac{\gamma_{\alpha\delta} - \gamma_{\beta\delta}}{\gamma_{\alpha\beta}}\right)$$

(c)
$$0 = \cos^{-1} \left(\frac{\gamma_{\alpha\delta} - \gamma_{\beta\delta}}{\gamma_{\alpha\delta}} \right)$$

(b)
$$\theta = \cos^{-1}\left(\frac{\gamma_{\delta\delta} - \gamma_{\alpha\beta}}{\gamma_{\alpha\beta}}\right)$$

(c)
$$0 = \cos^{-1} \left(\frac{\gamma_{\alpha} \delta - \gamma_{\beta} \delta}{\gamma_{\alpha} \delta} \right)$$

(d) $\theta = \cos^{-1} \left(\frac{\gamma_{\alpha} \delta - \gamma_{\beta} \delta}{\gamma_{\beta} \delta} \right)$

(GATE EE 2025)

43. Match the phenomena listed in **Group I** with the possible mechanisms in **Group II**

Group 1

(P) Fatigue

(Q) Creep

(R) Strain hardening

(S) Yield point phenomenon

(a) P-2, Q-3, R-4, S-1

(b) P-2, Q-4, R-3, S-1

Group 2

- (1) Grain boundary sliding
- (2) Slip band extrusion and intrusion
- (3) Cottrell atmosphere
- (4) Dislocation interaction
- (c) P-1, Q-2, R-4, S-3
- (d) P-1, Q-2, R-4, S-3

(GATE EE 2025)

44. Fracture stress for a brittle material having a crack length of 1 μ m is 200 MPa. Fracture stress for the same material having a crack length of 4 μ m is

(a) 200 MPa

(c) 100 MPa

(b) 150 MPa

(d) 50 MPa

(GATE EE 2025)

45. The flow stress $(\overline{\sigma})$ of an alloy varies with strain rate $(\dot{\epsilon})$ as $\overline{\sigma} = 100(\dot{\epsilon})^{0.1}$ MPa. When the alloy is hot extruded from 10 cm diameter to 5 cm diameter at a speed of 2 cm/s, the flow stress is

MT 8/??

(a) 1000 MPa

(c) 150 MPa

(b) 105 MPa

(d) 1050 MPa

(GATE EE 2025)

46. Determine the correctness or otherwise of the following **Assertion** (a) and **Reason** (r).

Assertion: During rolling, front tension and (or) back tension are (is) employed to decrease rolling load.

Reason: Roll pressure decreases due to lowering of flow stress as a result of front tension/back tension.

- (a) A is false but R is true
- (b) A is true and R is also true, but r is not the reason for a
- (c) A is true and R is also true, and r is the reason for a
- (d) A is true but R is false

(GATE EE 2025)

47. Match the defects listed in **Group I** with the processes listed in **Group II**

Group 1	Group 2	
(P) Cold shut	(1) Rolling	
(Q) Earing	(2) Forging	
(R) Alligatoring	(3) Deep drawing	
(S) Shrinkage porosity	(4) Fusion welding	
(a) P-2, Q-4, R-1, S-4	(c) P-2, Q-3, R-1, S-4	
(b) P-2, Q-4, R-3, S-1	(d) P-4, Q-1, R-2, S-3	
		(GATE EE 2025

(GATE EE 2025)

Common Data for Questions 48 and 49:

A steel ball (density $\rho_{steel} = 7200 \text{kg/m}^3$) is placed in an upward moving liquid Al (density $\rho_{Al} = 2360 \text{kg/m}^3$, viscosity $\mu_{Al} = 1 \times 10^3 \text{ Pa.s}$ and Reynolds number = 5×10^5). The force (F)exerted on the steel ball is expressed as

$$F = f\pi R^2 \left(\rho_{Al} v^2 / 2 \right)$$

where f is friction factor (=0.2), v is the velocity of liquid Al and R is the radius of steel ball.

48. The force exerted on the steel ball is

(a) 8.32 N

(c) 1.67 N

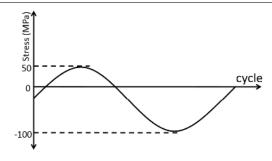
(b) 6.70 N

(d) 0.52 N

(GATE EE 2025)

49. The terminal velocity of a fine spherical steel particle having diameter d_p , in μ m range, if allowed to fall in a quiescent liquid Al bath, is

MT 9/??



(a) $5.2 \times 10^6 d_p^2$ m/s

(c) $1.3 \times 10^6 d_p^2$ m/s

(b) $2.6 \times 10^6 d_p^2$ m/s

(d) $6.6 \times 10^5 d_p^2$ m/s

(GATE EE 2025)

Common Data for Questions 50 and 51:

For the above stress cycle:

- 50. Stress ratio is
 - (a) 4

(c) -2

(b) 2

(d) -4

(GATE EE 2025)

- 51. Amplitude ratio is
 - (a) 3

(c) -1/3

(b) 1/3

(d) -3

(GATE EE 2025)

Statement for Linked Answer Questions 52 and 53:

A material with grain size of ASTM No. 6 has a lattice frictional stress $100~MN/m^2$ and locking parameter (Hall-Petch constant) $0.10~MN/m^{3/2}$

- 52. Grain size of the material is approximately
 - (a) $45 \mu m$

(c) $4.5 \mu m$

(b) $35 \, \mu \text{m}$

(d) $3.5 \, \mu \text{m}$

(GATE EE 2025)

- 53. Yield strength of the material is approximately
 - (a) 100 MPa

(c) 165 MPa

(b) 115 MPa

(d) 215 MPa

(GATE EE 2025)

Statement for Linked Answer Questions 54 and 55:

The strain hardening behaviour of an annealed rod during cold rolling is given by $\overline{\sigma} = 700(\epsilon)^{0.2}$ MPa, where $\overline{\sigma}$ is the flow stress at strain ϵ .

54. Flow stress after 50% reduction in area of the annealed rod on cold rolling is approximately

MT 10/??

(c) 609 MPa

(a) 750 MPa

	(b) 650 MPa	(d) 559 MPa	
		(GATE EE	2025)
55.	If a wire of 5 mm diameter is drawn from stress, neglecting the effect of friction an	the above cold rolled rod of 10 mm diameter, the drad redundant work, is approximately	awing
	(a) 650 MPa	(c) 450 MPa	
	(b) 550 MPa	(d) 400 MPa	
		(GATE EE	2025)
56.	Which one of the following options is the	e closest in meaning to the word given below?	
	Latitude		
	(a) Eligibility	(c) Coercion	
	(b) Freedom	(d) Meticulousness	
		(GATE EE	2025)
57.	Choose the most appropriate word from the	he options given below to complete the following sen	itence:
	Given the seriousness of the situation that he had to face, his was impressive.		
	(a) beggary	(c) jealousy	
	(b) nomenclature	(d) nonchalance	
		(GATE EE	2025)
58.	Choose the most appropriate alternative sentence:	from the options given below to complete the foll	owing
	If the tired soldier wanted to lie down,	, he the mattress out on the balcony.	
	(a) should take	(c) should have taken	
	(b) shall take	(d) will have taken	
		(GATE EE	2025)
59.	If $(1.001)^{1259} = 3.52$ and $(1.001)^{2062} =$	7.85 , then $(1.001)^{3321} =$	
	(a) 2.23	(c) 11.37	
	(b) 4.33	(d) 27.64	
		(GATE EE	2025)
60.	One of the parts (A, B, C, D) in the sente following is INCORRECT ?	ence given below contains an ERROR . Which one	of the
		e driving test today instead of tomorrow.	

MT 11/??

(a) requested that

(c) the driving test

(b) should be given

(d) instead of tomorrow

(GATE EE 2025)

61. The data given in the following table summarizes the monthly budget of an average household.

Category	Amount (Rs.)
Food	4000
Clothing	1200
Rent	2000
Savings	1500
Other expenses	1800

The approximate percentage of the monthly budget NOT spent on savings is

(a) 10%

(c) 81%

(b) 14%

(d) 86%

(GATE EE 2025)

62. There are eight bags of rice looking alike, seven of which have equal weight and one is slightly heavier. The weighing balance is of unlimited capacity. Using this balance, the minimum number of weighings required to identify the heavier bag is

(a) 2

(c) 4

(b) 3

(d) 8

(GATE EE 2025)

63. Raju has 14 currency notes in his pocket consisting of only Rs. 20 notes and Rs. 10 notes. The total money value of the notes is Rs. 230. The number of Rs. 10 notes that Raju has is

(a) 5

(c) 9

(b) 6

(d) 10

(GATE EE 2025)

64. One of the legacies of the Roman legions was discipline. In the legions, military law prevailed and discipline was brutal. Discipline on the battlefield kept units obedient, intact and fighting, even when the odds and conditions were against them. Which one of the following statements best sums up the meaning of the above passage?

- (a) Thorough regimentation was the main reason for the efficiency of the Roman legions even in adverse circumstances.
- (b) The legions were treated inhumanly as if the men were animals.
- (c) Discipline was the armies' inheritance from their seniors.
- (d) The harsh discipline to which the legions were subjected to led to the odds and conditions being against them.

(GATE EE 2025)

65. A and B are friends. They decide to meet between 1 PM and 2 PM on a given day. There is a condition that whoever arrives first will not wait for the other for more than 15 minutes. The probability that they will meet on that day is

MT 12/??

(a) 1/4

(c) 7/16

(b) 1/16

(d) 9/16

(GATE EE 2025)

END OF THE QUESTION PAPER

MT 13/??