

- 1) Earth's dipole field originates mainly from (GATE EE 2025)
- a) mantle
 - b) outer core
 - c) inner core
 - d) crust
- 2) sunspots are regions of (GATE EE 2025)
- a) high pressure
 - b) low magnetic field
 - c) high temperature
 - d) high magnetic field
- 3) The electrical conduction mechanism in sedimentary rocks is usually. (GATE EE 2025)
- a) pyroelectric
 - b) electronic
 - c) electrolytic
 - d) dielectric
- 4) The unit of electrical resistivity is (GATE EE 2025)
- a) ohm
 - b) ohm-m
 - c) ohm-m²
 - d) ohm-m-1
- 5) outcrop pattern parallel to topographic contours signifies (GATE EE 2025)
- a) horizontal beds
 - b) vertical beds
 - c) inclined beds
 - d) folded beds
- 6) A rock with equal modal contents of quartz, plagioclase and orthoclase is known as (GATE EE 2025)
- a) diorite
 - b) gabbro
 - c) granite
 - d) syenite
- 7) The main factors in soil-forming processes are (GATE EE 2025)
- a) bedrock and time only
 - b) topography and bedrock only
 - c) climate, time and topography only
 - d) climate, topography, bedrock and time

- 8) Glacial drift refers to the (GATE EE 2025)
- a) movement of glaciers
 - b) interglacial intervals
 - c) erosional landforms produced by glaciers
 - d) sediments deposited by glaciers
- 9) sand dunes are long ridges whose alignment is (GATE EE 2025)
- a) always parallel to prevailing wind direction
 - b) always perpendicular to prevailing wind direction
 - c) either parallel or perpendicular to prevailing wind direction
 - d) not related to prevailing wind direction
- 10) The oldest rocks in India are (GATE EE 2025)
- a) more than 3 billion years old
 - b) between 2.5 and 3 billion years old
 - c) between 2 and 2.5 billion years old
 - d) less than 2 billion years old
- 11) The sequential placement of geological events as determined by their position in the rock record is known as (GATE EE 2025)
- a) relative dating
 - b) correlation
 - c) absolute dating
 - d) uniformitarianism
- 12) Time equivalence of rock units in different areas can be established primarily by considering similarity in (GATE EE 2025)
- a) lithology
 - b) fossil assemblages
 - c) sedimentary structures
 - d) mineral assemblages
- 13) Which of the following volcanic events has been suggested as a major cause of the extinction of dinosaurs? (GATE EE 2025)
- a) Panjal volcanism
 - b) Deccan volcanism
 - c) Rajmahal volcanism
 - d) Malani volcanism
- 14) Bode's law express the approximate distance between (GATE EE 2025)
- a) earth and other planets
 - b) moon and sun
 - c) planets and sun
 - d) moon and earth
- 15) India's northward drift from Gondwanaland is believed to have started approximately (in million years ago, Ma) (GATE EE 2025)
- a) 50 Ma
 - b) 150 Ma

- c) 300 Ma
 - d) 400 Ma
- 16) Which of the following instruments contain piezoelectric material?
(GATE EE 2025)
- a) hydrophone
 - b) geophone
 - c) gravimeter
 - d) magnetometer
- 17) If the average crustal thickness is 35 km and the height of a mountain is 5 km above the mean sea level, the crustal thickness on Airy's model beneath the mountain will be approximately (GATE EE 2025)
- a) 35 km
 - b) 40 km
 - c) 50 km
 - d) 70 km
- 18) The equipotential surface over which the gravitational field has equal value is known as (GATE EE 2025)
- a) geoid
 - b) spheroid
 - c) ellipsoid
 - d) mean sea level
- 19) The angle between the present geographic north and geomagnetic north is (GATE EE 2025)
- a) 1.5°
 - b) 7.5°
 - c) 11.5°
 - d) 23.5°
- 20) Among the following the best reconnaissance method for determining basement configuration of sedimentary basins is (GATE EE 2025)
- a) gravity method
 - b) self potential method
 - c) seismic method
 - d) electromagnetic method
- 21) Cooling of basic lava under water will lead to the formation of (GATE EE 2025)
- a) lava tunnel
 - b) pillow structure
 - c) columnar jointing
 - d) cumulus texture
- 22) what would you expect to find at the base of a typical oceanic plate?
(GATE EE 2025)

- a) Basalt
- b) Diorite
- c) Gabbro
- d) peridotite

23) Major coal deposits of India are found in the (GATE EE 2025)

- a) cuddapah supergroup
- b) vindhyana supergroup
- c) Gondwana supergroup
- d) Dharwar supergroup

24) Which of the following is a product of residual weathering process?
(GATE EE 2025)

- a) Placer gold
- b) Banded iron ore
- c) Bauxite
- d) Porphyry copper

25) choose the correct combination of ore and location of it's deposits.(GATE EE 2025)

- a) uranium-jaduguda
- b) Lead-khetri
- c) Gold-panna
- d) Iron-Malankhand

26) The age of the oldest rocks in present-day ocean basins is (GATE EE 2025)

- a) Devonian
- b) Jurassic
- c) Eocene
- d) Permian

27) Silicon to oxygen ratio in the following silicate structure is (GATE EE 2025)

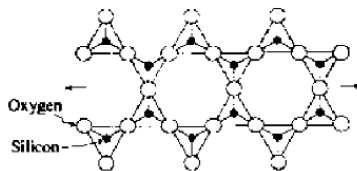


Fig. 27: silicate structure

- a) 1 : 2
- b) 2 : 5
- c) 4 : 11
- d) 1 : 3

28) Direct precipitation of uraninite from a mineralizing solution containing UO_2 ions can take place due to (GATE EE 2025)

- a) increase in Eh
- b) decrease in Eh
- c) increase in pH

d) decrease in pH

- 29) Match the optical properties in Group I with appropriate minerals in Group II.
(GATE EE 2025)

Group I

P. Twinkling
Q. Pleochroic haloes
R. Anomalous interference colour
S. Uniaxial positive

Group II

1. Quartz
(2) Nepheline
(3) Calcite
(4) Chloride
(5) Biotite

a) P-4, Q-5, R-3, S-2

b) P-3, Q-4, R-5, S-2

c) P-3, Q-5, R-4, S-1

d) P-3, Q-4, R-5, S-1

- 30) Wall-rock alteration producing epidote, albite and chloride around an ore body is called (GATE EE 2025)

a) argillic alteration
b) propylitic alteration
c) potassium-silicate alteration
d) sericite alteration

- 31) Match the textures/structures in Group I with appropriate minerals in Group II.
(GATE EE 2025)

Group I

P. Cumulus texture
Q. Spinifex texture
R. Oriented intergrowth
S. Comb structure

Group II

(1) Cavity filling
(2) Gravity settling
(3) Annealing
(4) Quenching
(5) Coherent exsolution

a) P-2, Q-4, R-5, S-1

b) P-3, Q-1, R-2, S-5

c) P-1, Q-5, R-4, S-3

d) P-2, Q-5, R-4, S-1

- 32) An area shows linear erosional depression, sag pond, spring and offset stream along with sub-horizontal slickensides. The prominent structure indicated by these features is (GATE EE 2025)

a) strike-slip fault
b) horst and graben
c) klippe
d) nappe

- 33) Match the ore types in Group I with path-finder elements in Group II
(GATE EE 2025)

P. Porphyry Cu ore
Q. Vein type Au ore

Group II

1. As
2. Hg

R. Pb-Zn-Ag ores

3.Cr

4.Mo

5.Ni

a) P-4, Q-1, R-2

c) P-4, Q-3, R-5

b) P-3, Q-2, R-1

d) P-5, Q-4, R-2

- 34) Match the nature of mass movements listed in Group I with the evidences listed in Group II. (GATE EE 2025)

Group I

Group II

P. Creep

Q. Earth flow

R. Slump

1. Tounge-shaped mass movement

2. Curved tree trunks

3. Scree formation at the base

4. Curved surface of rupture

a) P-2, Q-1, R-4

c) P-4, Q-2, R-1

b) P-1, Q-3, R-4

d) P-4, Q-3, R-2

- 35) Which of the following metamorphic facies is characterized by the pyrope rich garnet+ omphacite assemblage? (GATE EE 2025)

a) Blueschist

c) Greenschist

b) Eclogite

d) Granulite

- 36) Match the gemstones in Group I with corresponding minerals in Group II. (GATE EE 2025)

Group I

Group II

P. Peridot

Q. Emerald

R. Amazonite

S. Ruby

1. Beryl

2. Feldspar

3. Corundum

4. Olivine

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

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

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

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

- 37) Which of the following statements is NOT correct with regard to a perched water table? (GATE EE 2025)

a) It is within an area where a local aquiclude occurs within a larger aquifer

b) It lies above the main water table

c) It is found in the main zone of saturation

d) It is occasionally associated with springs

- 38) The spatial resolution of IRS LISS-III multi-spectral sensor for Near Infra-Red (NIR) band is (GATE EE 2025)
- 5.8m \times 5.8m
 - 23.5m \times 23.5m
 - 70m \times 70m
 - 72.5m \times 72.5m
- 39) Which of the following combinations of extinction events and extinct organisms is NOT correct? (GATE EE 2025)
- Cretaceous end Dinosaurs
 - Triassic end-Conodonts
 - Permian end - Trilobites
 - Miocene end - Ammonites
- 40) In India, marine fossiliferous rocks of lower Paleozoic age are mainly found in the (GATE EE 2025)
- Gondwana
 - Higher Himalaya
 - Outer Himalaya
 - Tethys Himalaya
- 41) Which of the following pairs of rock formations and characteristic fossils is correct?
- Raniganj-*Elephas*
 - Pinjor-*Titanosaurus*
 - Lameta-*Glossopteris*
 - Subathu-*Nummulites*
- 42) Which of the following groups of rock formations is NOT arranged from older to younger? (GATE EE 2025)
- Uttatur Trichinopoly Ariyalur - Niniyur
 - Paicham-Katrol-Chari - Urmia
 - Talchir-Damuda Panchet - Mahadev
 - Semri-Kaimur-Rewa-Bhander
- 43) Choose the correct combination of geological agents and associated features (GATE EE 2025)
- River - Spit
 - Glacier Yardang
 - Longshore current - Esker
 - Wind-Ventifact
- 44) A sedimentary sequence dominated by large scale (5-10 m thick) cross beds, well-sorted and well-rounded quartz-rich sand with no fine matrix is most likely to

be a

(GATE EE 2025)

- a) deltaic deposit
 - b) lagoonal deposit
 - c) colian deposit
 - d) outer shelf deposit
- 45) An invertebrate in which the plane of symmetry bisects the shell through the mid-point of the hinge is a (GATE EE 2025)
- a) Pelecypod
 - b) Brachiopod
 - c) Gastropod
 - d) Cephalopod
- 46) The oldest mammals and birds are known ,respectively from, (GATE EE 2025)
- a) Cretaceous and Paleocene
 - b) Silurian and Devonian
 - c) Triassic and Jurassic
 - d) Oligocene and Miocene
- 47) Allochems in a limestone consist of (GATE EE 2025)
- a) micrite only
 - b) spar only
 - c) ooids only
 - d) bioclasts and ooids

Common Data Questions

Common Data Questions 48 and 49

The following geological map exposes three beds, of which the bed P is the oldest and the bed R the youngest. (GATE EE 2025)

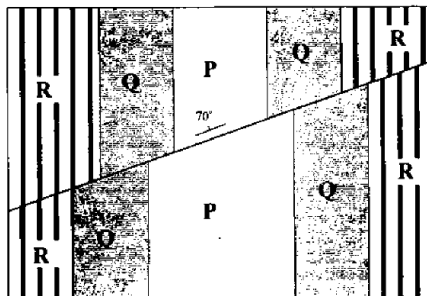


Fig. 47

- 48) What type of structure does the map depict? (GATE EE 2025)
- Faulted anticline
 - Folded strike-slip fault
 - Faulted syncline
 - Folded normal fault

- 49) Why is bed P wider in the area south of fault? (GATE EE 2025)
- Erosion has removed most of bed P to the north of fault
 - Folding has caused thinning of bed P to the north of fault
 - Deeper level of bed P is exposed due to faulting and erosion to the south of fault
 - Bed P had a variable thickness prior to faulting

Common Data Questions 50 and 51

A sequence of shale and limestone is intruded by an igneous pluton. Metasomatic interaction between the pluton and the country rocks involves introduction of Si and Al into dolomitic limestone.

- 50) Which pair of rock types best describes the products of metamorphism in the contact aureole? (GATE EE 2025)

- | | |
|---------------------|------------------------|
| a) Slate and schist | c) Schist and bornfels |
| b) Schist and skarn | d) Hornfels and skarn |

- 51) The mineral which is NOT expected in assemblages in the metamorphosed dolomitic limestone is (GATE EE 2025)

- coarse
- anorthite
- diopside
- andalusite

Linked Answer Questions

statement for Linked Answer Questions 52 and 53:

A pluton of iron-poor basic magma containing trace concentrations of Ni, Rb, Sr and V undergoes crystallization upon cooling.

- 52) The first mineral to crystallize will be (GATE EE 2025)

- augite
- hornblende
- olivine
- oligoclase

- 53) The trace element that will be preferentially incorporated in the correct mineral in Q. 52 is (GATE EE 2025)

- Ni
- Rb
- Sr
- V

Linked Answer Questions 54 and 55:

- 54) Silica-undersaturated minerals are (GATE EE 2025)
- nepheline and albite
 - olivine and enstatite
 - leucite and orthoclase
 - olivine and leucite
- 55) The Hermann-Mauguin symbols of crystallographic notation for the correct minerals in Q. 54 are (GATE EE 2025)
- $2/m2/m2/m$ and $4/m$
 - $2/m2/m2/m$ for both
 - $4/m$ and $2/m$
 - 6 and I

END OF SECTION 1 OF PART B

PART B (SECTION 2): FOR GEOPHYSICS CANDIDATES ONLY

- 26) The gravity value measured at the base of a 10 m tall building is 40 mGal. The value at the top of the building ignoring its mass is close to (GATE EE 2025)
- 20 mGal
 - 37 mGal
 - 40 mGal
 - 43 mGal
- 27) Upward continuation technique filters their wavelength anomalies and amplitudes. (GATE EE 2025)
- short. reduces
 - long, enhances
 - long, reduces
 - short, enhances
- 28) The relative intensities of induced and remanent magnetization are commonly expressed in terms of (GATE EE 2025)
- susceptibility
 - gyromagnetic ratio
 - Poisson's ratio
 - konigsberg ratio
- 29) In electrical resistivity method, which among the following is correct with reference to Geometric Factor (GF)? (GATE EE 2025)
- varies for profiling and remains constant
 - GF remains constant for profiling and varies for sounding
 - GF remains constant for both profiling and sounding
 - GF varies for both profiling and sounding

- 30) If in a magnetic dipole ' m ' represents poles of equal strength and ' l ' represents the distance between the two poles, then the magnetic moment of dipole is (GATE EE 2025)
- lm
 - $\frac{l}{m}$
 - $2lm$
 - $\frac{lm}{2}$
- 31) Energy in radioactive decay with respect to time follows (GATE EE 2025)
- normal distribution
 - Poisson distribution
 - chi-squared distribution
 - binomial distribution
- 32) The logging technique that uses non-conductive drilling fluids is (GATE EE 2025)
- SP logging
 - Resistivity logging
 - Induction logging
 - Radiometric logging
- 33) Unguided random-walk inversion technique signifies (GATE EE 2025)
- Genetic algorithm
 - Simulated annealing
 - Monte Carlo inversion
 - Metropolis algorithm
- 34) The compressional wave velocity V_p within a solid with adiabatic bulk modulus K , rigidity modulus G and density ρ is given by (GATE EE 2025)
- $v_p = \sqrt{\frac{K\gamma + (5/3)G}{\rho}}$
 - $v_p = \sqrt{\frac{K\gamma + (2/3)G}{\rho}}$
 - $v_p = \sqrt{\frac{K\gamma + (1/3)G}{\rho}}$
 - $v_p = \sqrt{\frac{K\gamma + (4/3)G}{\rho}}$
- 35) The number of independent elements of the 4th order stiffness tensor required to characterize general elastic media is (GATE EE 2025)
- 2
 - 21
 - 36
 - 81
- 36) The seismic energy released in an earthquake of magnitude $M_s = 7.0$ is about ____ times that released in an earthquake of $M_s = 6.0$. times that (GATE EE 2025)
- 10
 - 32
 - 64
 - 100

- 37) In the figure given below “-” represents dilatation and “+” represents compression. The fault plane solution of an earthquake with strike-slip mechanism is represented by (GATE EE 2025)

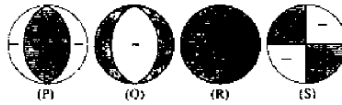


Fig. 37

- a) P
b) Q
c) R
d) S
- 38) The anelastic attenuation of seismic energy depends on (GATE EE 2025)
- quality factor
 - particle acceleration
 - stress drop
 - particle velocity
- 39) The seismic wave travelling in low velocity layer and critically incident at the discontinuity between low and high velocity layers (GATE EE 2025)
- will be diffracted
 - will be reflected
 - will propagate along the discontinuity
 - will be absorbed
- 40) An input signal $\{-1, 1, 0, 2\}$, after passing through a delay operator z , will be (GATE EE 2025)
- $-z^2 + z^3 + 2z^5$
 - $\{0, -1, 1, 0, 2\}$
 - $\{0, 2, 0, 1, -1\}$
 - $-z + z^2 + 2z^4$
- 41) If m represents the number of model parameters, d the number of data points and p the rank of matrix to be inverted, then which of the following defines an underdetermined system? (GATE EE 2025)
- $m < d$ and $p = d$
 - $m > d$ and $p = d$
 - $m = d$ and $p = d$
 - $m < d$ and $p \neq d$
- 42) A unit amplitude of an electromagnetic wave at thrice the skin-depth will be reduced to (GATE EE 2025)
- $-3e$
 - $\frac{3}{e}$
 - $\frac{e}{3}$

d) e^{-3}

- 43) The Hilbert transform of a function $f(t)$ is denoted by $H(f(t))$. If $f(t) = \sin t$, then $H\{H(f(t))\}$ is (GATE EE 2025)

- a) $-\sin t$
 b) $-\cos t$
 c) $\sin t$
 d) $\cos t$

- 44) The rectangular function $\pi(t)$ is defined as $\pi(t) = \begin{cases} 1 & |t| \leq \frac{1}{2} \\ 0 & |t| > \frac{1}{2} \end{cases}$

The convolution of $\pi(t)$ with itself will be (GATE EE 2025)

- a) a triangular function $\Delta(t)$
 b) again $\pi(t)$
 c) a unit-step function $u(t)$
 d) a delta function $\delta(t)$

- 45) Given $A = e^{-y}(\cos xa_x - \sin xa_y)$, where a_x and a_y denote the unit vectors in x-, y- directions respectively. Then $\nabla \cdot (\nabla \times A) =$ (GATE EE 2025)

- a) e^{-y}
 b) 0
 c) $e^{-y} \cos x$
 d) $e^{-y} \sin x$

- 46) Match the items in Group I with those in Group II. (GATE EE 2025)

Group I

- P. convolution in time domain
 Q. Nyquist frequency
 R. Aliasing
 S. White noise

Group II

1. $\frac{1}{2\Delta t}$
 2. Flat spectrum
 3. Multiplication in frequency domain
 4. Frequency folding
 5. Autocorrelation function

- a) P-3, Q-1, R-4, S-2
 b) P-2, Q-1, R-5, S-4
 c) P-3, Q-1, R-2, S-1
 d) P-2, Q-4, R-1, S-5

- 47) In magnetic materials, the relation between magnetic permeability μ and susceptibility K (in SI units) is (GATE EE 2025)

- a) $\mu = 1/k$
 b) $\mu = 1 - k$
 c) $\mu = 1 + k$
 d) $\mu = 1 - 2\pi k$

Common Data Questions

Common Data Questions 48 and 49

The terrain correction in gravity method accounts for topographic relief in the vicinity

of the observation point. The Bouguer slab assumes the topography around the observation point to be flat. In the figure below, the Bouguer slab thickness is h and the hollow portion P lies within the Bouguer slab. Q and R are parts of the topography.

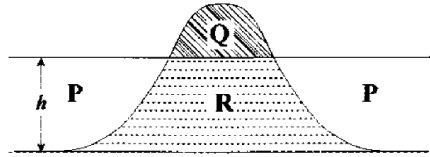


Fig. 47

- 48) In the region P, the terrain correction is (GATE EE 2025)
- half of that in R
 - negative
 - zero
 - positive

- 49) In the region Q, the terrain correction is required to account for (GATE EE 2025)
- hollow portion P
 - reduced gravity due to excess mass in portion Q
 - increased gravity due to excess mass in portion Q
 - over-correction of Bouguer slab

Common Data for Questions 50 and 51: For an input x_n the output of a digital filter y_n is given by $y_n = 1.5x_n - 2x_{n-1} + 2.5y_{n-2}$

- 50) The order of the digital filter is (GATE EE 2025)
- 4
 - 3
 - 2
 - 1

- 51) The transfer function of the digital filter is (GATE EE 2025)

- $\frac{y_n}{x_n} = \frac{1.5-2z}{1-2.5z}$
- $\frac{y_n}{x_n} = \frac{1.5-2z}{1-2.5z^2}$
- $\frac{y_n}{x_n} = \frac{1-2.5z^2}{1.5-2z}$
- $\frac{y_n}{x_n} = \frac{1.5-2z}{1+2.5z^2}$

Linked Answer Questions Statement for Linked Answer Questions 52 and 53: In a two-layer earth model, the values of seismic velocity and density of first and second layers, respectively, are $V\rho_1 = 4000\text{m/s}$, $\rho_1 = 2500\text{kg/m}^3$, and $V\rho_2 = 4500\text{m/s}$, $\rho_2 = 2600\text{kg/m}^3$.

- 52) The acoustic impedance of the first layer in SI units at normal incidence is (GATE EE 2025)

- a) 10^3
- b) 10^4
- c) 10^5
- d) 10^7

53) The transmission coefficient for a wave at normal incidence at the boundary of first and second layer is (GATE EE 2025)

- a) 0.46
- b) 0.58
- c) 0.92
- d) 1.07

Statement for Linked Answer Questions 54 and 55:

Consider a magnetotelluric (MT) field set up. A plane electromagnetic wave with a time dependence factor $e^{(-i\omega t)}$ is travelling vertically downwards (z-direction) into the Earth with an angular frequency ω . The electric field is polarized in the x-direction (strike).

54) The electromagnetic field components considered in this mode are (GATE EE 2025)

- a) E_x, H_x, H_z
- b) E_z, H_x, H_z
- c) E_x, H_x, E_z
- d) E_z, H_x, H_z

55) Which of the following equations represents the above mode? (GATE EE 2025)

- a) $E_z = \frac{-1}{i\omega t} \frac{\partial H_z}{\partial z}$
- b) $H_x = \frac{-1}{i\omega t} \frac{\partial E_z}{\partial z}$
- c) $H_x = \frac{-1}{i\omega t} \frac{\partial E_x}{\partial z}$
- d) $H_z = \frac{-1}{i\omega t} \frac{\partial E_x}{\partial z}$

END OF SECTION 2 OF PART B

General Aptitude (GA) Questions

56) His rather casual remarks on politics his lack of seriousness about the subject. (GATE EE 2025)

- a) masked
- b) belied
- c) betrayed

d) suppressed

57) Which of the following options is the closest in meaning to the word below:

Circuitous

(GATE EE 2025)

- a) cyclic
- b) indirect
- c) confusing
- d) crooked

58) If we manage to our children. our natural resources, we would leave a better planet for

(GATE EE 2025)

- a) uphold
- b) restrain
- c) cherish
- d) preserves

59) 25 persons are in a room. 15 of them play hockey, 17 of them play football and 10 of them play both hockey and football. Then the number of persons playing neither hockey nor football is:

(GATE EE 2025)

- a) 2
- b) 17
- c) 13
- d) 3

60) The question below consists of a pair of related words followed by four pairs of words. Select the pair that best expresses the relation in the original pair.

Unemployed: Worker

(GATE EE 2025)

- a) fallow: land
- b) unaware: sleeper
- c) wit: jester
- d) renovated: house

61) If $137 + 276 = 435$ how much is $731 + 672$?

(GATE EE 2025)

- a) 534
- b) 1403
- c) 1623
- d) 1513

62) Hari (*H*), Gita (*G*), Irfan (*I*) and Saira (*S*) are siblings (*i.e. brothers and sisters*). All were born on 1st January. The age difference between any two successive siblings (that is born one after another) is less than 3 years. Given the following facts:

- i. Hari's age + Gita's age > Irfan's age + Saira's age.
- ii. The age difference between Gita and Saira is 1 year. However, Gita is not the oldest and Saira is not the youngest.
- iii. There are no twins

In what way they were born (*oldest first*)?

(GATE EE 2025)

- a) HSI G
- b) SGHI
- c) IGS H
- d) IHSG

- 63) **Modern warfare has changed from large scale clashes of armies to suppression of civilian populations. Chemical agents that do their work silently appear to be suited to such warfare; and regretfully, there exist people in military establishments who think that chemical agents are useful tools for their cause.** Which of the following statements best sums up the meaning of the above passage: (GATE EE 2025)
- a) Modern warfare has resulted in civil strife.
 - b) Chemical agents are useful in modern warfare.
 - c) Use of chemical agents in warfare would be undesirable.
 - d) People in military establishments like to use chemical agents in war.
- 64) 5 skilled workers can build a wall in 20 days: 8 semi-skilled workers can build a wall in 25 days: 10 unskilled workers can build a wall in 30 days. If a team has 2 skilled, 6 semi-skilled and 5 unskilled workers, how long will it take to build the wall? (GATE EE 2025)
- a) 20 days
 - b) 18 days
 - c) 16 days
 - d) 15 days
- 65) Given digits 2, 2, 3, 3, 3, 4, 4, 4, 4 how many distinct 4 digit numbers greater than 3000 can be formed? (GATE EE 2025)
- a) 50
 - b) 51
 - c) 52
 - d) 53

END OF THE QUESTION PAPER