

## **General Aptitude (GA)**

# Q.1 – Q.5 Carry ONE mark Each

Q.1	If '→' denotes increasing order of intensity, then the meaning of the words
	[sick $\rightarrow$ infirm $\rightarrow$ moribund] is analogous to [silly $\rightarrow$ $\rightarrow$ daft].
	Which one of the given options is appropriate to fill the blank?
(A)	frown
(B)	fawn
(C)	vein
(D)	vain



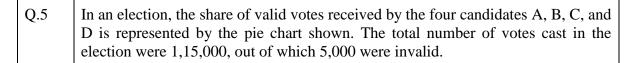
Q.2	The 15 parts of the given figure are to be painted such that no two adjacent parts with shared boundaries (excluding corners) have the same color. The minimum number of colors required is
(A)	4
(B)	3
(C)	5
(D)	6



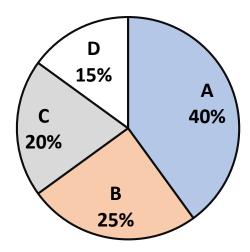


Q.3	How many 4-digit positive integers divisible by 3 can be formed using only the digits {1, 3, 4, 6, 7}, such that no digit appears more than once in a number?
(A)	24
(B)	48
(C)	72
(D)	12
Q.4	The sum of the following infinite series is
	$2 + \frac{1}{2} + \frac{1}{3} + \frac{1}{4} + \frac{1}{8} + \frac{1}{9} + \frac{1}{16} + \frac{1}{27} + \cdots$
(A)	11/3
(B)	7/2
(C)	13/4
(D)	9/2





#### Share of valid votes



Based on the data provided, the total number of valid votes received by the candidates B and C is

(A)	45,000
(B)	49,500
(C)	51,750
(D)	54,000

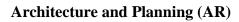


## Q.6 – Q.10 Carry TWO marks Each

Q.6	Thousands of years ago, some people began dairy farming. This coincided with a number of mutations in a particular gene that resulted in these people developing the ability to digest dairy milk.			
	Based on the given passage, which of the following can be inferred?			
(A)	All human beings can digest dairy milk.			
(B)	No human being can digest dairy milk.			
(C)	Digestion of dairy milk is essential for human beings.			
(D)	In human beings, digestion of dairy milk resulted from a mutated gene.			
Q.7	The probability of a boy or a girl being born is 1/2. For a family having only three children, what is the probability of having two girls and one boy?			
(A)	3/8			
(B)	1/8			
(C)	1/4			
(D)	1/2			



Q.8	Person 1 and Person 2 invest in three mutual funds A, B, and C. The amounts they invest in each of these mutual funds are given in the table.					they
			Mutual fund A	Mutual fund B	Mutual fund C	
		Person 1	₹10,000	₹20,000	₹20,000	
		Person 2	₹20,000	₹15,000	₹15,000	
	Perso	on 2. The annual ra		mutual funds B ar	gets is ₹500 more nd C is 15% each.	
(A)	7.5%					
(B)	10%					
(C)	15%					
(D)	20%					





Q.9	Three different views of a dice are shown in the figure below.
	5 4 6 5
	The piece of paper that can be folded to make this dice is
(A)	5       1         4       6         2       3
(B)	5       1         4       2         6       3
(C)	5     1       3     2       4     6
(D)	5       1         4       6         3       2





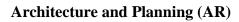
Q.10	Visualize two identical right circular cones such that one is inverted over the other and they share a common circular base. If a cutting plane passes through the vertices of the assembled cones, what shape does the outer boundary of the resulting cross-section make?
(A)	A rhombus
(B)	A triangle
(C)	An ellipse
(D)	A hexagon



### PART A: Common FOR ALL CANDIDATES

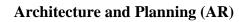
### Q.11 – Q.28 Carry ONE mark Each

Q.11	The nature of curvature of the following <i>structural form</i> is		
(A)	monoclastic		
(B)	synclastic		
(C)	anticlastic		
(D)	möbius		
Q.12	As per the Ekistics Logarithmic Scale, the 'world city' is referred as		
(A)	Megalopolis		
(B)	Conurbation		
(C)	Acropolis		
(D)	Ecumenopolis		



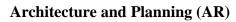


Q.13	In Mānasāra Silpasāstra, a bow-shaped town plan is known as
(A)	Dandaka
(B)	Prastara
(C)	Kārmuka
(D)	Nandyāvarta
Q.14	The value of a property when sold at a <i>lower price</i> than its open market price is called
(A)	Distress Value
(B)	Accommodation Value
(C)	Speculative Value
(D)	Replacement Value



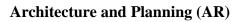


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man Aspects of Urban Form is
man Aspects of Urban Form is



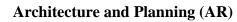


Q.17	Which of the following statements is correct for Urban Cool Island (UCI)?	
(A)	The UCI and Urban Heat Island (UHI) cannot happen in a city at the same time.	
(B)	Air temperature of surrounding rural areas is warmer than that of the urban areas.	
(C)	Air temperature of surrounding rural areas is cooler than that of the urban areas.	
(D)	UCI happens only in a snow-clad mountain.	
Q.18	Which of the following statements is correct for an <i>oxidation pond</i> to treat waste water?	
(A)	It is an aerobic pond.	
(B)	It is an anaerobic pond.	
(C)	It does not require sunlight.	
(D)	It does not remove Biological Oxygen Demand (BOD).	





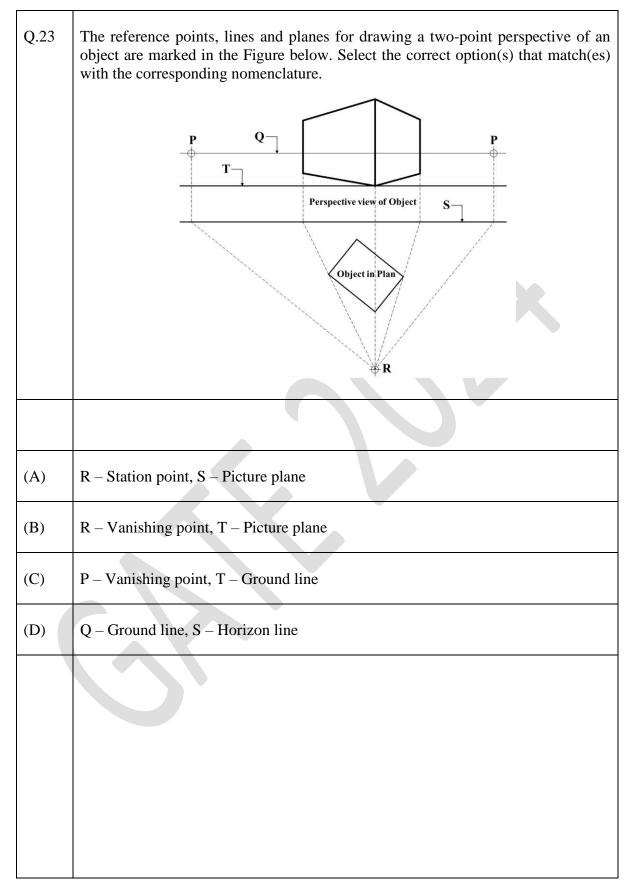
Q.19	The conservation architect of the <i>Maitreya Buddha Temple</i> at <i>Basgo</i> , <i>Ladakh</i> which won the 2007 UNESCO Asia-Pacific Heritage Award is
(A)	Abha Narain Lambah
(B)	Vinod Kumar M. M.
(C)	Rahul Mehrotra
(D)	Saima Iqbal
Q.20	Which of the following options is/are the right sequence(s) in water treatment process?
(A)	Coagulation → Flocculation → Sedimentation
(B)	Sedimentation → Filtration → Disinfection
(C)	Sedimentation → Flocculation → Coagulation
(D)	Disinfection → Filtration → Flocculation

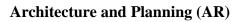




Q.21	Which of the following is/are associated with <i>Gentrification</i> in a neighbourhood?
(A)	Wealthier households displace poor households
(B)	Poor households displace wealthier households
(C)	Real estate value increases
(D)	Real estate value decreases
Q.22	Which of the following sites is/are included in the <i>UNESCO World Heritage List</i> as on December 2022?
(A)	Capitol Complex, Chandigarh
(B)	Moth ki Masjid, Delhi
(C)	Keoladeo National Park, Bharatpur
(D)	Paradesi Synagogue, Kochi

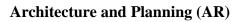








Q.24	India's intended <i>Nationally Determined Contribution</i> to the United Nations Framework Convention on Climate Change in 2022 include(s)
(A)	reduction of emissions intensity of India's GDP by 45% by 2030 from 2005 level
(B)	achieving about 50% cumulative electric power installed capacity from non-fossil fuel-based energy resources by 2030
(C)	achieving the target of net-zero emission by 2030
(D)	reduction of total projected carbon emission by one billion tonnes from 2022 to 2025
Q.25	As per the Census of India 2011, non-notified slums is/are categorised as
(A)	Recognised
(B)	Identified
(C)	Unrecognised
(D)	Authorised





Q.26	Which of the following is/are under the purview of the <i>Energy Conservation Building Code of India 2017</i> ?
(A)	Indoor Lighting
(B)	Outdoor Lighting
(C)	Plug Loads
(D)	Embodied Energy
Q.27	Which of the following is/are used for municipal fiscal resource mobilisation?
(A)	Property tax
(B)	Development charges
(C)	Income tax
(D)	Salary of municipal staff
Q.28	A ramp with a slope of 1:12 is required for wheelchair access. Intermediate landings of length 1.5 m each have to be provided after every 9 m running length. The <i>running length</i> of a straight ramp including landing, to negotiate a level difference of 900 mm vertical height, in m, is (rounded off to two decimal places).



### Q.29 – Q.49 Carry TWO marks Each

Q.29	Match	the	features	in	Group-I	with	the	corresponding	software	tools	in
	Group-	–II.									

	Group–I		Group-II
(P)	Raster Graphics Editing	(1)	OpenStudio
(Q)	Energy Modeling	(2)	GIMP
(R)	Visual Programming Interface	(3)	STAAD
(S)	Structural Analysis	(4)	Grasshopper
		(5)	Radiance

(A) 
$$P-3, Q-1, R-2, S-5$$

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

(C) 
$$P-1, Q-4, R-5, S-2$$

(D) 
$$P-2, Q-5, R-1, S-3$$



Q.30	Match the <i>elements</i> in <b>Group–I</b> with the corresponding <i>buildings</i> in <b>Group–II</b> .

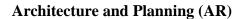
	Group–I		Group-II
(P)	Lightweight Structure	(1)	Taipei 101, Taipei by Lee and Wang
(Q)	Base Isolator	(2)	The Gherkin, London by Foster & Partners
(R)	Tuned-mass Damper	(3)	Museum of New Zealand Te Papa Tongarewa, Wellington by Ivan Mercep
(S)	Diagrid	(4)	Paper Log Houses, Kobe by Shigeru Ban
		(5)	Metropolitan Cathedral of Christ the King, Liverpool by Lutyens and Gibberd

(A) 
$$P-1, Q-3, R-5, S-4$$

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

(C) 
$$P-4, Q-1, R-5, S-2$$

(D) 
$$P-3, Q-2, R-1, S-5$$

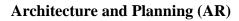




Q.31 Match the following *concepts* in **Group–I** with their corresponding *description* in **Group–II**.

	Group–I		Group-II
(P)	NIMBY	(1)	Affording a clear view of the waterfront to a plot through the abutting street
(Q)	Form based code	(2)	Planning and zoning tool to regulate development primarily through urban form
(R)	Tactical urbanism	(3)	Establishment of residential areas on the outskirts of a city
(S)	Suburbanisation	(4)	Short-term, low cost, scalable interventions and policies to change a neighbourhood
		(5)	Resisting any physical intervention by public or private enterprises within their neighbourhood

- (A) P-5, Q-2, R-4, S-3
- (B) P-5, Q-4, R-3, S-2
- (C) P-1, Q-2, R-4, S-5
- (D) P-1, Q-5, R-4, S-3





Q.32 Match the *urban renewal projects* in **Group–I** with the corresponding *cities* in **Group–II**.

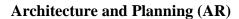
	Group–I		Group-II
(P)	Cheonggyecheon	(1)	New York
(Q)	The High Line	(2)	London
(R)	False Creek South	(3)	Seoul
(S)	Canary Wharf	(4)	Vancouver
		(5)	Tokyo

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

(B) 
$$P-3, Q-5, R-1, S-2$$

(C) 
$$P-5, Q-1, R-2, S-3$$

(D) 
$$P-2, Q-5, R-4, S-3$$





Q.33 Match the *Biosphere Reserves* in **Group–I** with their corresponding *features* in **Group–II**.

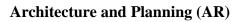
	Group–I		Group-II
(P)	Gulf of Mannar	(1)	Ridge, Glacier
(Q)	Sunderbans	(2)	Sub-tropical/Tropical Forest, Stepped Hill
(R)	Nanda Devi	(3)	Swamp forest, Mangrove
(S)	Nilgiri	(4)	Coral Reefs, Seagrass bed
		(5)	Salt Marsh, Flat Terrain

(A) 
$$P-1, Q-3, R-4, S-5$$

(B) 
$$P-3, Q-5, R-1, S-2$$

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

(D) 
$$P-4, Q-2, R-3, S-5$$





	Group-I		Group–II
(P)	Edge City	(1)	Rapid expansion of geographical areas of towns or cities
(Q)	Synekism	(2)	Violence against the city
(R)	Urbicide	(3)	A secondary CBD on the edge of the city
(S)	Urban Sprawl	(4)	Rebuilding core city area
		(5)	Union of several small urban settlements under one rule
P-3, Q-5,	R – 2, S – 1		
P-3, Q-4,	R-2, S-5		
P-2, Q-5,	R - 3, S - 1		
P-4, Q-2,	R - 3, S - 1		



Q.35	Match the <i>items</i> in <b>Group–I</b> with th	neir corresponding items in Group-II.
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Group-I		Group-II	
(P)	Floating floor	(1)	Overflow control
(Q)	Float valve	(2)	Delay not affecting a project
(R)	Metal float	(3)	Acoustical buffer
(S)	Free float	(4)	Plastering equipment
		(5)	Traffic flow control

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

(B) 
$$P-5, Q-1, R-3, S-4$$

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

(D) 
$$P-1, Q-2, R-5, S-4$$



Q.36	As per the URDPFI Guidelines 2015, match the type of educational facilities in
	<b>Group–I</b> with the corresponding <i>minimum population to be served per facility</i>
	in <b>Group–II</b> .

	Group-I		Group-II	
(P)	Integrated school	(1)	4,000	
(Q)	Senior secondary school	(2)	2,500	
(R)	College	(3)	90,000	
(S)	Primary school	(4)	1,25,000	
		(5)	7,500	

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

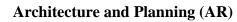
(B) 
$$P-3, Q-5, R-4, S-1$$

(C) 
$$P-2, Q-5, R-1, S-3$$

(D) 
$$P-3, Q-2, R-4, S-5$$

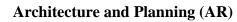
Q.37 Which of the following statements is/are true?

- (A) Physiological Equivalent Temperature is used in outdoor thermal comfort evaluation.
- (B) Thermal Performance Index is computed using outside surface temperature of building envelope.
- (C) Reynolds number less than 2000 refers to laminar wind flow.
- (D) Reynolds number greater than 4000 refers to turbulent wind flow.



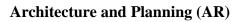


Q.38	Which of the following statements is/are correct?
(A)	Yellow, blue-violet and red-violet are split complementary hues.
(B)	Orange, green and violet are analogous combinations.
(C)	CMYK is a subtractive colour system.
(D)	Blue, green, orange and red are tetrad combinations.
Q.39	Which of the following statements is/are correct?
(A)	The Royal Botanical Garden is in Kew, England.
(B)	The Villa d'Este is in Tivoli, Italy.
(C)	Indira Gandhi Memorial Tulip Garden is in Srinagar, J&K, India.
(D)	Shinjuku Gyoen National Garden is in Beijing, China.





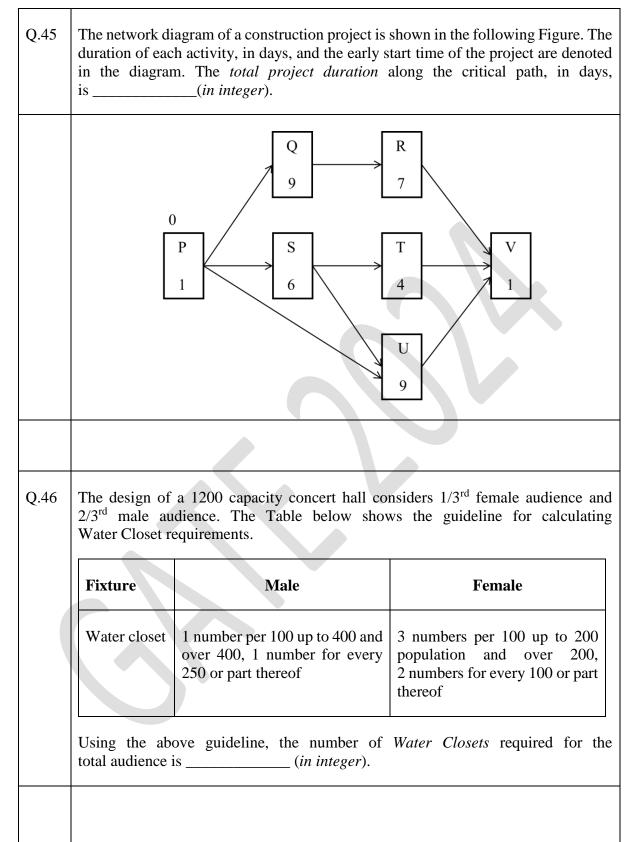
Q.40	Which of the following statements is/are correct?
(A)	Hibiscus or china rose ( <i>Hibiscus rosa-sinensis</i> ) is a shrub which has red, pink, white, and yellow blossoms.
(B)	Frangipani, champa, and <i>plumeria alba</i> are names of the same flowering tree.
(C)	Jacaranda ( <i>Jacarenda mimisifolia</i> ), gulmohar ( <i>delonix regia</i> ), and amaltas ( <i>laburnum</i> ) are flowering trees.
(D)	The fruit of the Kadam/cadamba tree ( <i>Neolamarckia cadamba</i> ) is conical in shape and poisonous for humans.
Q.41	Which of the following is/are component(s) of Right of Way (RoW) of a road?
(A)	Building line
(B)	Kerb
(C)	Carriageway
(D)	Sidewalk





Q.42	As per the National Building Code of India 2016, terminologies associated with <i>fire fighting</i> in a building is/are
(A)	Refuge area
(B)	Water sprinkler system
(C)	Panic bar
(D)	Atrium
Q.43	For the beam shown below, ignoring the self-weight, the maximum hogging moment (in kN·m) generated for the loads indicated is (rounded off to one decimal place).
	3 kN 2 kN/m 1 m 1.5 m 2 m 2 m
Q.44	At present, the cost of a new office equipment is 50,000 (in Indian Rupees). It has 15% salvage value after a useful life of 5 years. Using <i>straight line method of depreciation</i> , the <i>book value</i> of the equipment 3 years from now, in Indian Rupees, will be (in integer).







Q.47 A declining Industrial Town has proposed to improve water sustainability by reducing stormwater runoff through change of land use land cover (LULC), as shown in the Table below, to attract new residents.

LULC	Runoff Coefficient	Existing Area in hectare	Proposed Area in hectare
Industrial	0.7	1500	800
Residential	0.5	1000	1200
Park and Playgrounds	0.25	1200	1000
Forest	0.15	300	1000

Considering a flat topography and zero additional runoff from the adjoining areas, the *reduction in run-off generation* for a 400 mm rainfall event in the industrial town for the proposed intervention, in cubic meters, is  $\_\_\_\_\times 10^6$  (*rounded off to two decimal places*).

A real estate developer is developing a township on a PPP mode. The total area of the site is 2.672 hectares with an allowable FAR of 2.25, of which 20% is earmarked for MIG category. The gross area of each MIG unit including common areas and services is 72 m<sup>2</sup>. Assuming super built up area to be same as FAR, the maximum number of MIG apartments that can be constructed is \_\_\_\_\_\_ (in integer).

Q.49 A municipal town requires a volume of 70,000 m<sup>3</sup> compacted solid waste to fill a low lying land. The city has a total of 10,000 households.

Type of House	Percentage of Households	Equivalent volume of compacted solid waste generated/ household/ day
LIG	30%	$0.10 \text{ m}^3$
MIG	60%	0.15 m <sup>3</sup>
HIG	10%	$0.20 \text{ m}^3$

Using the information as shown in the Table above, the estimated minimum number of days required to fill the low lying land is \_\_\_\_\_ (in integer).

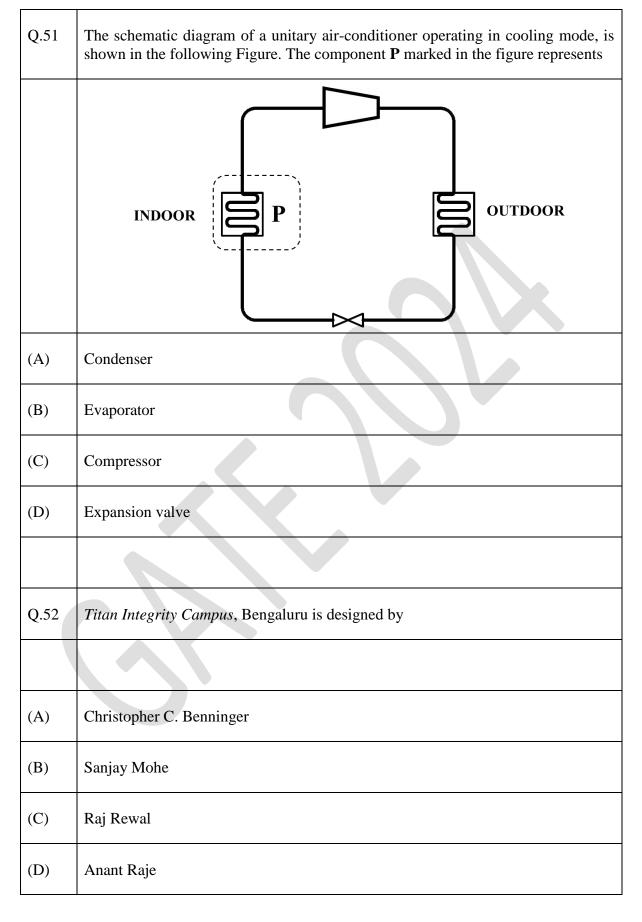


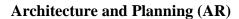
### **PART B1: FOR Architecture CANDIDATES ONLY**

### Q.50 – Q.56 Carry ONE mark Each

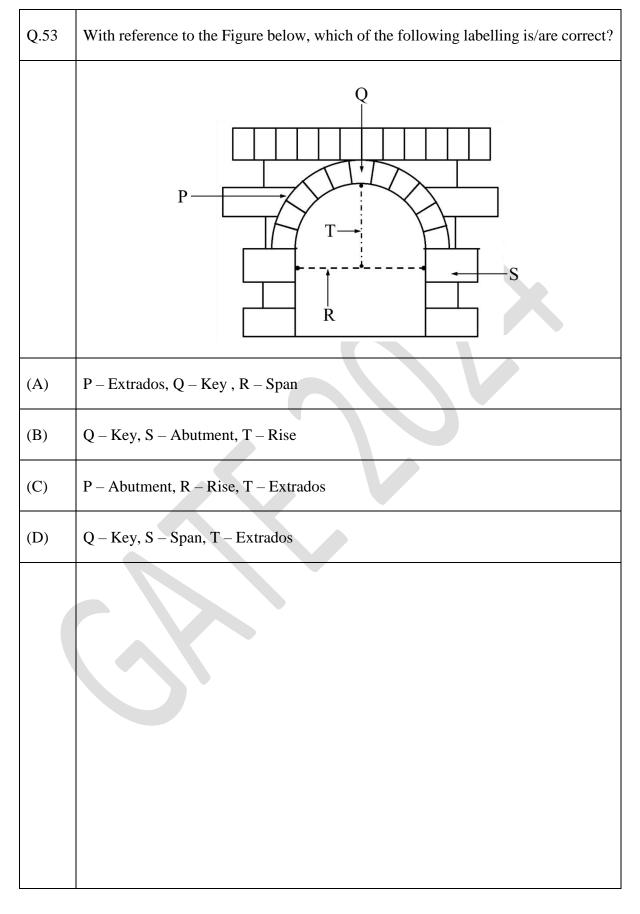
Q.50	Rose window is a characteristic feature of
(A)	Great Temple of Ammon, Karnak, Egypt
(B)	Temple of Jupiter, Baalbek, Lebanon
(C)	Notre-Dame, Paris, France
(D)	Humayun Tomb, Nizamuddin, Delhi

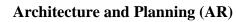






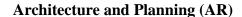








Q.54	Which of the following buildings has/have <i>pendentives</i> as a structural element?
(A)	St. Mark's Basilica, Venice, Italy
(B)	Westminster Cathedral, London, UK
(C)	Dilwara Temple, Mount Abu, India
(D)	Hagia Irene Museum and Concert Hall, Istanbul
Q.55	Polytetrafluroethylene (PTFE) coated fiberglass has been used as a roofing membrane in
(A)	Jawaharlal Nehru Stadium, New Delhi
(B)	Eden Gardens Stadium, Kolkata
(C)	Melbourne Cricket Ground Stadium, Melbourne
(D)	Beijing National Stadium, Beijing





Q.56 A non-stop express elevator directly connects the observatory level at 80<sup>th</sup> floor of a tower with the podium at 2<sup>nd</sup> floor level. The tower has a uniform floor-floor height of 4 m. The elevator attains a maximum speed of 8 m/s. Assume 2 m/s<sup>2</sup> as net vertical acceleration and net vertical deceleration (incorporating gravity). If the elevator starts from a state of rest from the podium, the time taken to reach the observatory, in seconds, is \_\_\_\_\_\_ (rounded off to one decimal place).





#### Q.57 – Q.65 Carry TWO marks Each

Q.57	Match the <i>elements</i> in <b>Group–I</b> with the corresponding <i>religious buildings</i> in
	Group-II.

Group-I		Group-II	
(P)	Bell capital	(1)	Mosque
(Q)	Mehrab	(2)	Hindu Temple
(R)	Gopuram	(3)	Greek Temple
(S)	Pediment	(4)	Romanesque Church
		(5)	Egyptian Temple

(A) 
$$P-5, Q-1, R-2, S-3$$

(B) 
$$P-3, Q-1, R-5, S-4$$

(C) 
$$P-5, Q-4, R-3, S-2$$

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



Q.58	Match the <i>museums</i> in <b>Group–I</b> with their <i>architects</i> in <b>Group–II</b> .					
		Group-I		Group-II		
	(P)	Indira Gandhi Rashtriya Manav Sangrahalaya, Bhopal	(1)	Charles Correa		
	(Q)	Bihar Museum, Patna	(2)	Ram Sharma		
	(R)	Gandhi Memorial Museum, Ahmedabad	(3)	Romi Khosla		
	(S)	Museum of Art and Photography, Bengaluru	(4)	Soumitro Ghosh & Nisha Mathew		
			(5)	Fumihiko Maki		
(A)	P-4,	Q-5, R-3, S-1				
(B)	P-4,	Q-3, R-1, S-2				
(C)	P-2,	Q-3, R-1, S-4				
(D)	P-2,	Q-5, R-1, S-4				



Q.59 Match the *specially shaped bricks* in **Group–I** with their corresponding *nomenclature* in **Group–II**.

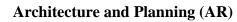
	Group–I	Group-II		
(P)		(1)	Plinth Header	
(Q)		(2)	Bird's mouth	
(R)		(3)	Squint	
(S)		(4)	Double cant	
	XX.	(5)	Plinth stretcher	

(A)	P _	- 4	0-	- 3	R	- 5,	S	_ 1

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

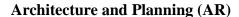
(C) 
$$P-4, Q-3, R-5, S-2$$

(D) 
$$P-4, Q-1, R-2, S-5$$

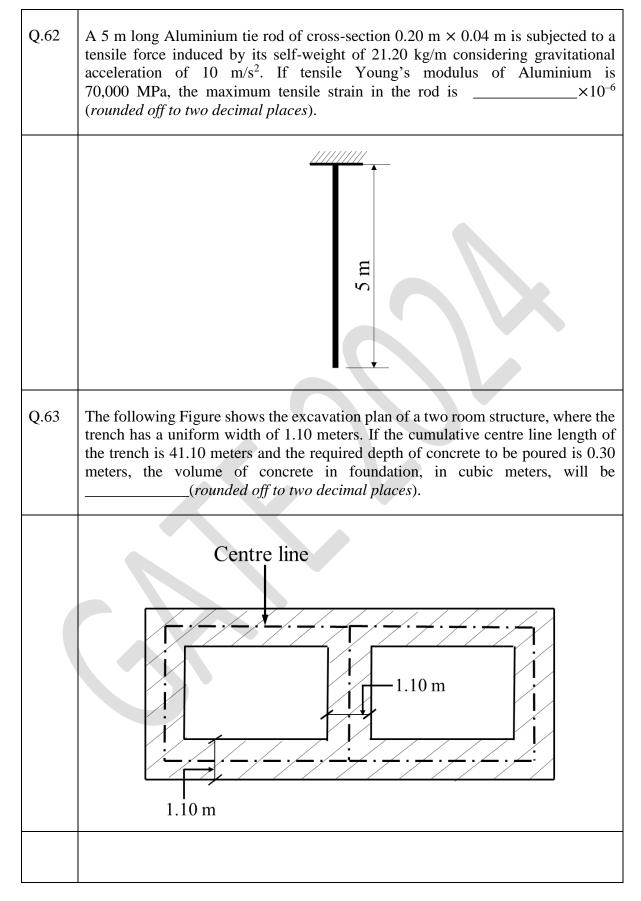


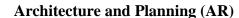


Q.60	Which of the following statements is/are correct?
(A)	The unit of Lighting Power Density is W/m <sup>2</sup> .
(B)	The unit of Lighting Power Density is cd/m <sup>2</sup> .
(C)	The unit of Sound Power is W.
(D)	The unit of Energy Performance Index is kWh/m²/year.
Q.61	Which of the following statements is/are correct?
(A)	Kath-kuni construction comprises layers of stone and timber.
(B)	Nālukettu houses have a courtyard.
(C)	<i>Ikra</i> is a two-storeyed house with stone masonry and a flat-roof.
(D)	Bhunga has a circular plan.

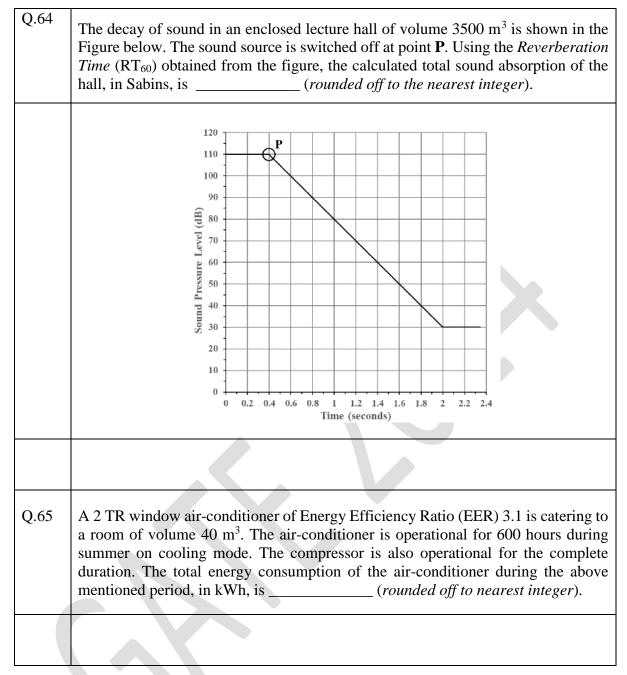














## **PART B2: FOR Planning CANDIDATES ONLY**

## Q.66 – Q.72 Carry ONE mark Each

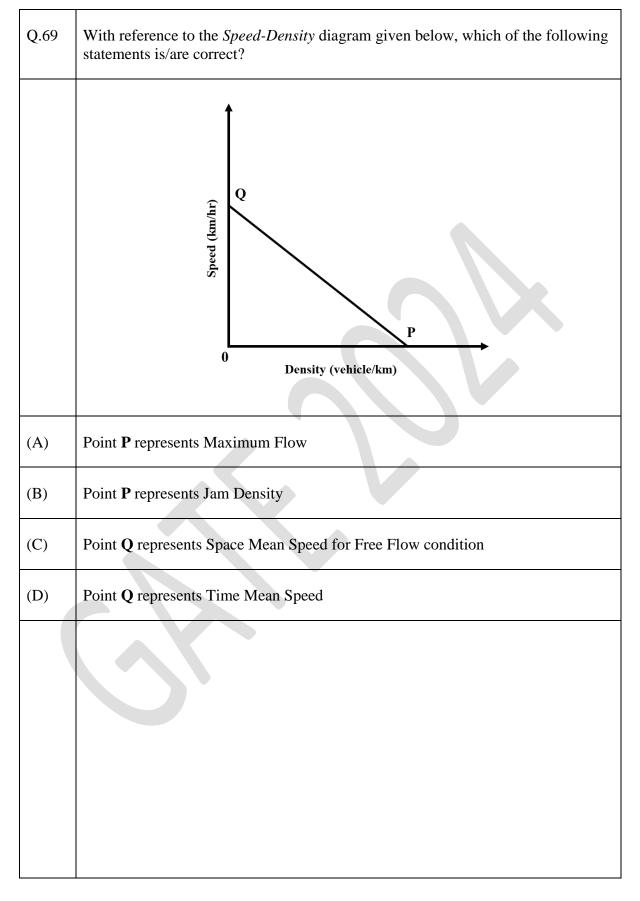
Q.66	Which of the following aims is set under the SVAMITVA scheme of the Ministry of Panchayati Raj, Government of India?
(A)	Provide tap water connection to all households in rural areas.
(B)	Provide 'right to work' to the rural people falling Below Poverty Line.
(C)	Establish clear ownership of property in rural inhabited ( <i>Abadi</i> ) areas, by mapping of land parcels using improvised technology.
(D)	Provide effective and efficient institutional platforms to enable the rural poor to increase their household income by means of sustainable livelihood enhancement.
Q.67	Mass Rapid Transit System is a
(A)	Fixed Route and Fixed Schedule service.
(B)	Fixed Route and Flexible Schedule service.
(C)	Flexible Route and Fixed Schedule service.
(D)	Flexible Route and Flexible Schedule service.





Q.68	Which of the following initiatives of the Government of India is also known as the <i>National Master Plan for Multi-modal Connectivity?</i>
(A)	PM Gati Shakti
(B)	Bharatmala
(C)	Parvatmala
(D)	Sagarmala







Q.70	Which of the following statements correctly represent(s) the <i>Demographic dividend</i> of a country?
(A)	Share of working age population is larger than dependent population.
(B)	Share of working age population is lesser than dependent population.
(C)	Demographic dividend demands more job creation.
(D)	Demographic dividend can never lead to demographic disaster.
Q.71	As per the URDPFI Guidelines 2015, choose the option(s) which indicate(s) the appropriate hierarchy of plans from higher to lower order.
(A)	Perspective Plan > Development Plan > Local Area Plan
(B)	Development Plan > Special Purpose Plan > Annual Plan
(C)	Local Area Plan > Development Plan > Annual Plan
(D)	Special Purpose Plan > Perspective Plan > Local Area Plan
Q.72	In 2021, a city survey report revealed a sex ratio of 930 with an estimated increase of 2.16% over the next 20 years. In 2041, the total population of the city is projected to be 15,00,000. The estimated female population in the year 2041 will be (in integer).

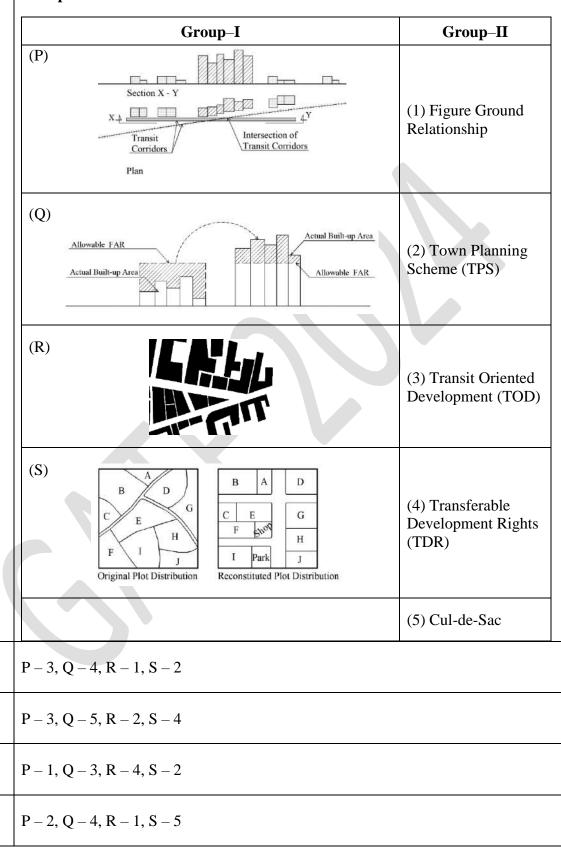


## Q.73–Q.81 Carry TWO marks Each

Group-I		Group-II	
(P)	Landfill site	(1)	Development on previously developed site
(Q)	Greenfield development	(2)	Land to dispose solid waste  Development on previously undeveloped land
(R)	Green Belt	(3)	
(S)	Brownfield development	(4)	Policy to protect livestock
		(5)	A buffer to control urban development
P-2,	Q-3, R-1, S-4		
P – 3,	Q-5, R-2, S-1		
P-2,	Q-3, R-5, S-1		
P-3,	Q-4, R-5, S-2		



Q.74 Match the following *illustrations* in **Group–I** with their corresponding *concepts* in **Group–II**.



(A)

(B)

(C)

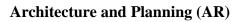
(D)



Q.75 Match the following *planning theories/concepts* in **Group–I** with their corresponding *proponents* in **Group–II**.

	Group–I	Group–II		
(P)	Valley Section	(1)	McGee and Gemburg	
(Q)	Third Place Theory	(2)	Oscar Newman	
(R)	Defensible Space	(3)	Ray Oldenberg	
(S)	Desakota Model	(4)	Patrick Geddes	
		(5)	C. A. Doxiadis	

- (A) P-4, Q-3, R-2, S-1
- (B) P-4, Q-2, R-3, S-1
- (C) P-1, Q-3, R-5, S-2
- (D) P-2, Q-4, R-1, S-5





Q.76	Which of the following methods is/are used in traffic survey to measure the <i>Running Speed</i> and <i>Journey Speed</i> ?
(A)	Moving Observer Method
(B)	Registration Number Method
(C)	Elevated Observer Method
(D)	Hardy Cross Method
Q.77	In the context of regional planning, which of the following terms represent(s) a region?
(A)	Formal
(B)	Functional
(C)	Isometric
(D)	Planning
Q.78	In a <i>one-way single lane</i> traffic stream, the observed average time headway is 2.5 seconds. The <i>traffic flow</i> of the above mentioned lane, in vehicle/hr, is(in integer).



