$I\ tcf\ wcvg'Cr\ vkwvf\ g'Vguv'lp'Gpi\ lpggt\ lpi$

Pqvcvlqpu'<				
1.Options shown in g	reen color and with	✓ icon are correct.		
2.Options shown in re	ed color and with 🍍	icon are incorrect.		
S wguwkqp'Rcrgt'Pco g<	AR: AR	CHITECTURE AND PLA	NNING 31st Jan Shift1	
Pwo dgt 'qh'S wguwlqpu<	65		THE CONTRACTOR OF THE CONTRACT	
VqvcnlO ct m≺	100.0			
Wrong answer for	MCO will result in neo	ative marks (-1/3) for 1	mark Questions and (-2/3) for	2 marks Questions
Wilding allower for	Wed wiii recait iii rieg		Harr Queeners and (270) for	2 marke gaestions
			C	
		General A	Aptitude	
Number of Question	is:	10		
Section Marks:		15.0	$\mathcal{C}_{\mathcal{O}}^{V}$	
0.44-0.5		40 0		
Q.1 to Q.5 carry 1	mark each & Q.6 to Q	.10 carry 2 marks each.		
S wgurkqp'P wo dgt '<3"S w	guwkqp'V{rg'<'OES			
Choose the most appr	opriate word from th	e options given below	to complete the following	
sentence.	•			
T1	14 1:0	. //		
The principal presente	ed the chief guest wi	th a	, as token of appreciation	n.
(A) momento	(B) memento	(C) momentum	(D) moment	
Qr vkqpu'<				
1. * A				
2. ✓ B		7		
3. * C				
4. * D				
S wguMqp'P wo dgt '<4''S w				
Choose the appropria sentence:	te word/phrase, out	of the four options give	en below, to complete the f	ollowing
sentence.				
Frogs				
(A) croak	(B) roar	(C) hiss	(D) patter	
Qr vkqpu'<				
1. ✔ A				
2. * B				
3. * C				
4. ₩ D				

Choose the word most similar in meaning to the given word:

Educe

- (A) Exert
- (B) Educate
- (C) Extract
- (D) Extend

Qr vkqpu'<

- 1. 🗱 A
- 2. 🗱 B
- 3. 🗸 C
- 4. * D

S wgurkqp'P wo dgt '\'6''S wgurkqp'V{rg'\'0 ES

Operators \Box , \Diamond and \longrightarrow are defined by: $a \Box b = \frac{a-b}{a+b}$; $a \Diamond b = \frac{a+b}{a-b}$; $a \longrightarrow b = ab$.

Find the value of $(66 \square 6) \rightarrow (66 \lozenge 6)$.

- (A) -2
- (B) -1
- (C) 1

D) 2

Or vkqpu'<

- 1. 🏶 A
- 2. 🗱 B
- 3 **√** C
- 4. * D

S wgurkqp'P wo dgt '<7''S wgurkqp'V{rg'<0ES

If $\log_x (5/7) = -1/3$, then the value of x is

- (A) 343/125
- (B) 125/343
- (C) -25/49
- (D) -49/25

Qr vkqpu'<

- 1. 🗸 A
- 2. 🗱 B
- 3. **%** C
- 4. * D



S wgurlqp'P wo dgt '<8''S wgurlqp'V{ r g'<0 ES

The following question presents a sentence, part of which is underlined. Beneath the sentence you find four ways of phrasing the underlined part. Following the requirements of the standard written English, select the answer that produces the most effective sentence.

Tuberculosis, together with its effects, ranks one of the leading causes of death in India.

- (A) ranks as one of the leading causes of death
- (B) rank as one of the leading causes of death
- (C) has the rank of one of the leading causes of death
- (D) are one of the leading causes of death

Qr vkqpu'<

- 1. 🖋 A
- 2. 🗱 B
- з. **Ж** С
- 4. * D

S wgwlqp'P wo dgt '<9''S wgwlqp'V{rg'<0 ES

Read the following paragraph and choose the correct statement.

Climate change has reduced human security and threatened human well being. An ignored reality of human progress is that human security largely depends upon environmental security. But on the contrary, human progress seems contradictory to environmental security. To keep up both at the required level is a challenge to be addressed by one and all. One of the ways to curb the climate change may be suitable scientific innovations, while the other may be the Gandhian perspective on small scale progress with focus on sustainability.

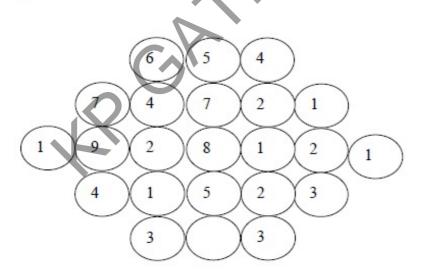
- (A) Human progress and security are positively associated with environmental security
- (B) Human progress is contradictory to environmental security.
- (C) Human security is contradictory to environmental security.
- (D) Human progress depends upon environmental security.

Qr vkqpu'<

- 1. 🏁 A
- 2. 🗸 B
- 3. × C
- 4. * D

$S \ wgunlqp'P \ wo \ dgt ' <! \ ''S \ wgunlqp'V \{ \ r \ g' <\! P \ CV$

Fill in the missing value



Eqttgev'Cpuy gt <

3

	_	et of smaller cubes of side visible to those which are N	1 unit. Find the proportion of NOT visible.									
(A) 1:4	(B) 1:3	(C) 1:2	(D) 2:3									
Qr vqpu' 1. ※ A 2. ※ B 3. ✓ C 												
S wguwkqp'P wo dgt'\232''S Humpty Dumpty sits sitting on the wall fa	s on a wall every day	_	vall sometimes breaks. A person									
Which one of the statements below is logically valid and can be inferred from the above sentences?												
(B) Humpty Dumpty (C) Humpty Dumpty	(A) Humpty Dumpty always falls while having lunch (B) Humpty Dumpty does not fall sometimes while having lunch (C) Humpty Dumpty never falls during dinner (D) When Humpty Dumpty does not sit on the wall, the wall does not break											
Qr vlqpu'<			5									
1. * A		•										
2. ✓ B			Y									
3. * C												
4. 🗱 D												
		Architecture and	Planning									
Number of Question Section Marks:	ons:	55 85.0										
Q.11 to Q.35 carr	ry 1 mark each & Q.36	to Q.65 carry 2 marks each.										
S wguMqp'P wo dgt '<33''S	wgwlqp'V{rg'<0ES											
A Housing Finance	e Institution in the p	private sector is										
(A) HUDCO	(B) SBI	(C) PNB	(D) HDFC									
Qr vkqpu' 1. ※ A 2. ※ B 3. ※ C												
4. ✔ D												

S wgurkqp'P wo dgt '<34''S wgurkqp'V{rg'<0 ES

Which of the following	statements regarding	PERT is NOT true?	
(A) Each activity of PE(B) Expected activity to(C) PERT is a determin(D) PERT network may	me is estimated based istic model	N. C.	
Qr vkqpu'\			
1. * A			
2. % B			
3. ✓ C			
4. * D			
S wgurkqp'P wo dgt'<35"S wgurkq	p'V{rg'∀OES		
Damage of foundation	due to 'Soil Liquefac	tion' is related to	
(A) Cyclones	(B) Landslides	(C) Floods	(D) Earthquakes
Qr vkqpu'\			
1. * A			S
2. 🗱 B		C	
3. % C			
4. 🗸 D			,
S wgurkqp'P wo dgt '<36''S wgurkq	ıp'V{rg'∀OES	C_{λ}	
Walls with high therma	al inertia are suitable i	n which type of climate	?
(A) Hot-dry	(B) Hot-humid	(C) Temperate	(D) Cold
Qr vkqpu'\			
1. ✓ A		,	
2. × B			
3. % C			
4. ₩ D			
S wgunlqp'P wo dgt '<37''S wgunlq	p'V{rg'≺OES		
The ratio of town as 'Garden City' concept		and area as suggested	by Sir Ebenezer Howard in
(A) 1:20	(B) 1:15	(C) 1:10	(D) 1:5
Qr vkqpu'\			
1. * A			
2. × B			
3. * C			
4. 🗸 D			
S wgurkqp'P wo dgt'<38"S wgurkq	p'V{rg'₹OES		

A 'Demolition Contract' for a building is awarded to the (A) Lowest Bidder (B) Highest Bidder (C) Second Lowest Bidder (D) Second Highest Bidder Qr vkqpu'< 1. 🏁 A 2. 🖋 B 3. X C 4. × D S wgurlap'P wo dgt '<39"S wgurlap'V{ r g'<0 ES Bulking of sand is highest in (A) Coarse sand (B) Medium sand (D) Sand saturated with water (C) Fine sand Qr vkqpu'< 1. 🏁 A 2. 🎏 B 3. 🗸 C 4. * D S wgurlap'P wo dgt '<3: "S wgurlap'V{rg'<OES The Venice Charter (1964) led to the establishment of (A) International Centre for the Study of the Preservation and Restoration of Cultural Property (B) International Council on Monuments and Sites (ICOMOS) (C) Indian National Trust for Art and Cultural Heritage (INTACH) (D) Archaeological Survey of India (ASI) Qr vkqpu'< 1. 🏁 A 2. 🖋 B 3. 🏶 C 4. * D S wgunlqp'P wo dgt' < 3; ''S wgunlqp'V{rg' < O ESThe ratio between illumination at a working point indoor to total light available simultaneously outdoor is known as (A) Daylight Factor (B) Sky Component (D) Externally Reflected Component (C) Internally Reflected Component Qr vkqpu'< 1. 🗸 A 2. X B 3. X C 4. × D

S wgurlap'P wo dgt '<42"S wgurlap'V{ r g'<O ES

Which of the following vehicular traffic intersections converts all crossing into merging and diverging sequences?

- (A) Rotary
- (C) Grade Separation

- (B) Manual Signaling
- (D) Automatic Signaling

Qr vkqpu'<

- 1. 🗸 A
- 2. X B
- 3. **%** C
- 4. × D

S wgurlqp'P wo dgt '<43"S wgurlqp'V{rg'<0 ES

The process of spraying Polyester, Polyurethane, Acrylic and Epoxy Plastic, followed by heat curing onto metals is called

- (A) Anodizing
- (C) Vitreous Enameling

- (B) Galvanizing
- (D) Powder Coating

Qr vkqpu'<

- 1. 🏁 A
- 2. 🏶 B
- 3. × C
- 4. 🖋 D

S wgurlqp'P wo $\,dgt$ ''
44''S wgurlqp'V{ $r\,g$ ''
OES

The fundamental right pertaining to property ownership in India DOES NOT embrace:

- (A) Sell, Lease, Donate or Bequeath
- (C) Grant Easement

- (B) Mortgage
- (D) Change in use

Qr vkqpu'\

- 1. 🏁 A
- 2. 🏶 B
- 3. **%** C
- 4. 🗸 D

S wgurlqp'P wo dgt '<45''S wgurlqp'V $\{rg'<OES\}$

Match the Elements in Group - I with their Applications in Group - II

Group - I

P Bracket

Q Baluster

R Key stone

S Holdfast

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

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

Group - II

- 1 Door
- 2 Dome
- 3 Cornice
- 4 Arch
- 5 Staircase
- (B) P-3, Q-5, R-4, S-1
- (D) P-2, Q-1, R-3, S-4

Options:

- 1. * A
- 2. 🖋 B
- 3. **%** C
- 4. * D

Question Number: 24 Question Type: MCQ

Match the Buildings in Group-I with their Principal Architects in Group-II

Group - I

- P Wexner Centre for the Visual Arts, Ohio
- Q Vitra Fire station, Weilam Rhein, Germany
- R AT&T Building, New York
- S Sher-e-Banglanagar, Dacca

Group - II

- I. M. Pei
- Peter Eisenman
- 3 Louis Kahn
- 4 Zaha Hadid
- 5 Philip Johnson

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

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

Options:

- 1. 🗸 A
- 2. 🏶 B
- 3. * C
- 4. * D

Question Number: 25 Question Type: MCQ

A combination of colours forming an equilateral triangle in a Colour Wheel is called

(A) Analogous Scheme

- (B) Triad Scheme
- (C) Split Complementary Scheme
- (D) Double Complementary Scheme

Options:

- 1. 🏁 A
- 2. 🖋 B
- 3. **%** C
- 4. * D

Question Number : 26 Question Type : MCQ
Desire Line diagram helps in
 (A) completion of a project by a desired date (B) meeting demand and supply in desired category of housing (C) determining income versus expenditure pattern of individuals (D) Origin-Destination analysis in transport planning
Options : 1. ★ A 2. ★ B 3. ★ C 4. ✔ D
Question Number : 27 Question Type : MCQ
As per Fire Safety norms of NBC India for buildings having assembly and institutional occupancies, the maximum travel distance in meters to an exit from the dead end of a corridor is
(A) 30 (B) 24 (C) 12 (D) 6
Options: L. * A 2. * B 3. * C 4. * D Question Number: 28 Question Type: MCQ Which of the following is a part of a studio apartment? (A) Master bed room (C) Multipurpose space Options: L. * A 2. * B 3. * C
4. * D
Question Number : 29 Question Type : MCQ
The Saturation level of a colour represents
(A) distribution (B) brilliance (C) darkness (D) warmth
Options : 1. ★ A 2. ✔ B 3. ★ C 4. ★ D

Question Number: 30 Question Type: MCQ

Invert level of a pipe at a given cross section refers to the

- (A) highest point of the internal surface
- (B) lowest point of the internal surface
- (C) highest point of the external surface
- (D) lowest point of the external surface

Options:

- 1. * A
- 2. 🖋 B
- 3. **%** C
- 4. × D

Question Number: 31 Question Type: MCQ

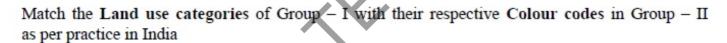
The command DVIEW in AutoCAD permits to view

- (A) a selected portion of the drawing in detail
- (B) the entire screen on the monitor
- (C) a perspective of the drawing
- (D) a damaged part of the drawing

Options:

- 1. 🟁 A
- 2. 🏶 B
- 3. 🗸 C
- 4. **%** D

Question Number: 32 Question Type: MCQ



Group - I

- P Residential
- Q Commercial
- R Industrial
- S Public / Semi-public
- (A) P 5, Q 3, R 4, S 1
- (C) P-1, Q-2, R-4, S-5

Group - II

- 1 Red
- 2 Grey
- 3 Blue
- 4 Violet
- 5 Yellow
- (B) P-5, Q-4, R-2, S-1
- (D) P-1, Q-3, R-2, S-4

Options:

- 1. 🗸 A
- 2. X B
- 3. **%** C
- 4. × D

Question Number: 33 Question Type: PCV

A rectangular beam section of size 300 mm (width) X 500 mm (depth) is loaded with a shear force of 600 kN. The maximum shear stress on the section in N/mm² is

Eqttgev'Cpuy gt:

6

Question Number: 34 Question Type: PCV

In a 50 meter section of a waste water pipe, if the gradient is 1 in 80, then the fall in millimeter is

Eqttgev'Cpuy gt:

625

Question Number: 35 Question Type: PCV

A 15 meter long and 3 meter wide driveway needs to be paved with 300 mm X 300 mm square tiles. If each packet contains 30 numbers of tiles, then the number of packets to be procured to pave the whole area is

Eqttgev'Cpuy gt:

16.5 to 17.0

Question Number: 36 Question Type: MCQ

Match the Monuments in Group-I with their Features in Group-II

Group-I

- P Panch Mahal, Fathepur Sikri
- Q Meenakshi Temple, Madurai
- R Jor-Bangla Temple, Bishnupur
- S Sun Temple, Konark

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

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

Group-II

- Painted Stone Figures
- 2 Intricate Red Sand Stone Carvings
- 3 Granite Statues
- 4 Khondalite Stone Work
- 5 Terracotta Carvings

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

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

Options:

Match the Monuments in Group-I with their Style of Architecture in Group-II

Group-I

P Pisa Cathedral, Italy

Q St. Hagia Sophia, Istanbul

R Great Temple of Aman, Karnak

S Cathedral of Notre Dame, Paris

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

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

Group-II

- 1 Gothic
- 2 Moorish
- 3 Egyptian
- 4 Byzantine
- 5 Romanesque

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

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

Options:

Question Number: 38 Question Type: MCQ

Match the Buildings in Group-I with their Style of Architecture in Group-II

Group-I

- P Rashtrapati Bhawan, New Delhi
- Q German Pavilion for World Exhibition, Barcelona
- R Guggenheim Museum, Bilbao
- S Crystal Palace, London

Group-II

- Industrial Architecture
- Deconstruction
- 3 Radical Eclecticism
- 4 International Style
- 5 Neo Classical

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

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

Options:

Question Number: 39 Question Type: MCQ

Match the Terms in Group - I with their Definitions in Group - II

	Group-I		Group-II
P	Kinesthesia	1	Measurement and study of size and proportions of human body
Q	Anthropometry	2	Study of man – machine interaction
R	Ergonomics	3	Study of past and present of the human race
S	Biomimicry	4	Study of human sensory experience during movement
		5	Imitation of models, systems and elements of nature
(A)	P-5, Q-3, R-4,	S-1	(B) $P-5$, $Q-2$, $R-4$, $S-3$
(C) I	P-4, Q-1, R-2,	S-5	(D) $P-4$, $Q-1$, $R-2$, $S-3$

Options:

- 1. 🏁 A
- 2. 🏶 B
- 3. **✔** C
- 4. 🗱 D

Question Number: 40 Question Type: MCQ

P



Group-II
1 Piazza del Campo, Sienna

2 Forum, Rome

Q

R

S

3 Trafalgar Square, London

Agora, Athens

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

- 5 St. Peter's Square, Rome
- (B) P-2, Q-3, R-1, S-5
- (D) P-2, Q-1, R-4, S-3

Options:

- 1. 🏁 A
- 2. 🖋 B
- 3. Ж С
- 4. * D

Question Number: 41 Question Type: MCQ

Match the Terms in Group - I with the appropriate Items in Group - II

Group-I

- P Toposheet
- Q Satellite Image
- R Wavelength
- S Scan Line
- (A) P 5, Q 4, R 2, S 1
- (C) P-2, Q-1, R-4, S-5

Group-II

- 1 Path/Row
- 2 Contour
- 3 Focal Length
- 4 Spectral Signature
- 5 Bits/inch
- (B) P-5, Q-1, R-4, S-3
- (D) P-2, Q-4, R-1, S-5

Options:

- 1. 🏶 A
- 2. 🏶 B
- 3. **√** C
- 4. × D

Question Number: 42 Question Type: MCQ

Match the Concepts in Group - I with their appropriate Explanation in Group - II

Group-I

- P Planned Unit Development
- Q Infill Development
- R Transit Oriented Development
- S Mixed Use Development
- (A) P-3, Q-2, R-5, S-4

- Group-II
- Development occurring on vacant or underused lots in otherwise built up areas
- 2 Development providing a fair and equitable way to integrate peri-urban areas
 - Developing a large area as a single entity merging zoning and subdivision control
 - Development with compatible land uses integrating varied activities at different times of the day
- 5 Development located within walking distance from mass transit stations along the corridor

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

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

Options:

- 1. 🏁 A
- 2. 🗸 B
- 3. **%** C
- 4. * D

Question Number: 43 Question Type: MCQ

Particles of soil in descending order of grain size is

- (A) Gravel Sand Silt Clay
- (C) Sand Gravel Clay Silt
- (B) Gravel Sand Clay Silt
- (D) Clay Gravel Sand Silt

Question Number: 44 Question Type: MCQ

Match the Units in Group - I with their Definitions in Group - II

Group-I

R Joule

S Newton

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

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

Group-II

- 1 Newton meter
- 2 Cycles / second
- 3 Lumen / m²
- 4 Watt / ampere
- 5 kg meter / sec²

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

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

Options:

Question Number: 45 Question Type: MCQ

Match the Energy Efficient Building Elements in Group-I with their associated Working Principles in Group-II

Group-I

- P Solar Chimney
- Q Earth Air Tunnel
- R Trombe Wall
- S Chilled Slab

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

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

Group-II

- Thermal Storage
- 2 Radiant Cooling
- 3 Stack Effect
- 4 Cross Ventilation
- 5 Geothermal Energy

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

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

Options:

Question Number: 46 Question Type: MCQ

Match the Vibrator Types in Group-I with their related Areas of Application in Group-II

Grou	ıp-I

P Needle Vibrator

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

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

Group-II

- Concrete Pavement
- 2 Pre-cast Concrete Unit
- 3 Beam-Column Junction
- 4 Retaining Wall
- 5 Slip Forming

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

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

Options:

Question Number: 47 Question Type: MCQ



	Group-I		Group-II
P	Scaffolding	1	To support unsafe structure
Q	Formwork	2	To support platforms for workmen and materials at raised
			height during construction
R	Shoring	3	Removal of water from pits
S	Underpinning	4	Mould for RCC Structure
		5	Strengthening the existing foundation
(A) I	Q-2, Q-4, R-1, Q-3, Q-4, R-5, S	S-5	(B) P-3, Q-5, R-1, S-2
(C) I	P-3, Q-4, R-5, S	5-2	(D) $P-2$, $Q-3$, $R-4$, $S-5$

Question Number: 48 Question Type: MCQ

Group-I

_	-	
P	Lagerstroemia	spectosa.
-	Dagersa cemaa	preciona

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

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

Group-II

- 1 Amaltas
- 2 Neem
- 3 Jarul
- 4 Babul
- 5 Peepal

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

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

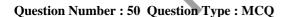
Options:

Question Number: 49 Question Type: MCQ

A man starts from his residence and uses the following modes in sequence to reach his office - cycle rickshaw to railway station, then train to destination station, followed by auto-rickshaw to nearby bus stand and finally a bus to his office. Which of the following describes his sequence of transit usage?

- (A) Non Motorised Transit Paratransit Mass Transit Public Transit
- (B) Paratransit Public Transit Non Motorised Transit Mass Transit
- (C) Private Transit Public Transit Non Motorised Transit Mass Transit
- (D) Non Motorised Transit Mass Transit Paratransit Public Transit

Options:



PMGSY and JNNURM are two Indian Government programmes which deal with

- (A) rural road development and urban basic service improvement respectively
- (B) rural sanitation services and under-developed road maintenance respectively
- (C) peri-urban basic services and urban basic service improvement respectively
- (D) rural road development and urban transport development respectively

Options:

Match the Planning Terms in Group – I with their Descriptions in Group – II.

Group-I

- P Gentrification
- Urban core revitalization O
- R Urban sprawl
- S Satellite town

Group-II

- Haphazard and low density outward growth of urban area
- dormitory settlement with dependency on parent city
- 3 Replacement of low income residents with high income
- Physical and socio-economic revival of the inner-city
- 5 Restricted development in an environmentally sensitive

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

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

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

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

Options:

- 1. 🏁 A
- 2. X B
- 3. X C
- 4. 🗸 D

Question Number: 52 Question Type: MCQ

Match the Planning Concepts in Group - I with their Corresponding Proponents in Group - II

Group-I

- P Broadacre city
- O Radiant city
- R Industrial town
- S Arcosanti

$$(A) P - 1 \cdot O - 4 \cdot R - 3 \cdot S = 5$$

Group-II

- Le Corbusier
- F. L. Wright
- Robert Owen
- Henry Wright
- Paolo Soleri
- (B) P-1, Q-3, R-5, S-2
- (D) P-2, Q-1, R-5, S-4

Options:

- 1. 🏁 A
- 2. X B
- 3. 🗸 C
- 4. * D

Question Number: 53 Question Type: PCV

The housing stock of a town has total number of 9090 dwelling units. Present population of the town is 45,450. Assuming an average household size of 4.5, the housing shortage in percentage is

(Duestion	Number	•	54	Ouestion Type	ρ.		P	C_{1}	V
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A hall is 15 m long and 12 m wide. If the sum of areas of the floor and ceiling is equal to the sum of the area of its four walls, then the volume of the hall in cubic meter is

Eqttgev'Cpuy gt:

1200

Question Number: 55 Question Type: PCV

The actual roof area of a building is 3,60,000 sqm, which on a site plan measures 25 sqcm. The scale of the site plan is 1:

Eqttgev'Cpuy gt:

12000

Question Number: 56 Question Type: PCV

If the annual net income from a commercial property is Rs 22,000/- and the interest rate is 8%, then the capitalized value in rupees of the property in perpetuity is _____

Eqttgev'Cpuy gt:

275000

Question Number: 57 Question Type: PCV

A five storied building is constructed on a 100 m x 50 m plot having ground coverage of 60% (option 1). Alternatively, a four storied building is constructed on the same plot with a 50% ground coverage (option 2). The ratio of FARs between options 1 and 2 is ______

Eqttgev'Cpuy gt:

1.5

Question Number: 58 Question Type: PCV

60%. The U-value of the roof slab (without thermal insulation) is 3 W m ² / °C. Assuming a constant temperature difference between indoor and outdoor, the U-value of the thermal insulation layer in W m ² / °C is
Eqttgev'Cpuy gt:
Question Number: 59 Question Type: PCV
A simply supported beam having effective span of 5 meter is carrying a centrally concentrated load of 16 kN. The maximum bending moment in the beam in kN-m is
Eqttgev'Cpuy gt:
Eqttgev'Cpuy gt:
Question Number: 60 Question Type: PCV
A landscaped garden with irregular profile and minor undulations, measuring 35,000 sqm, has a total surface area covered with 20% brick paving, 15% cement concrete paving, and rest with grass. The peak intensity of rainfall in that region is 70 mm/hr. The coefficient of runoff for brick paving, cement concrete paving and grass is 0.8, 0.9 and 0.5 respectively. The estimated quantity of runoff in cubic meter/hr for the entire garden area is
Eqttgev'Cpuy gt: 1510 to 1530
Question Number: 61 Question Type: PCV
The number of standard cement bags required to prepare 1400 kg of concrete in the ratio of 1 : 2 : 4 (mixed by weight batching) is
Eqttgev'Cpuy gt: 4
Question Number: 62 Question Type: PCV

A class roo	om mea	suri	ng 1	0 m ((L) x 8 m (B)	x 2.7 m	ı (H) requ	uires	an illum	inat	ion leve	1 of 500 1	lux
on the desi	k level	usin	g 40	W fl	uorescent lam	ps with	rat	ed ou	tput	of 5000	lum	ens eacl	n. Assumi	ing
utilization	factor	of	0.5	and	maintenance	factor	of	0.8,	the	number	of	lamps	required	15

Eqttgev'Cpuy gt:

20

Question Number: 63 Question Type: PCV

Area of tensile steel per meter width of a reinforced concrete slab is 335 sq mm. If 8 mm rods are used as reinforcement, then centre to centre spacing of the reinforcement in mm is ______

Eqttgev'Cpuy gt:

145 to 155

Question Number: 64 Question Type: PCV

The population of a town as per Census 2011 was 22,730 and the population as per census 2001 was 15,770. Considering arithmetic projection of growth, the projected population in 2016 will be

Eqttgev'Cpuy gt:

26178 to 26210

Question Number: 65 Question Type: PCV

Two concrete mixers of capacity 200 liters each are used in a construction site to produce 20 cubic meter of concrete. Ingredient charging, mixing and discharge times are 3 minutes, 7 minutes and 1 minute respectively. Assuming a time loss of 5 minutes per hour of operation, the total time in hours for the mixers to produce the required amount of concrete will be ______

Eqttgev'Cpuy gt:

9.9 to 10