www.FirstRanker.com I tcf wcvg'Cr vkwf g'Vguv'lp'Gpi lpggtlpi

P qvc vlqpu'<				
1.Options shown in	n green color a:	nd with 🗹 i	con are correct.	
2.Options shown is	n <mark>red</mark> color and	l with 🍍 icc	n are incorrect.	
S wguMqp'Rcrgt'Pco g			ECTURE AND PLAN	NNING 31st Jan Shift1
P wo dgt 'qh'S wguwlqpus	<	65		
VqvcrlO ct m≮		100.0		
Wrong answer	for MCQ will resu	ult in negative	marks, (-1/3) for 1 n	mark Questions and (-2/3) for 2 marks Questions.
			General A	Aptitude
Number of Ques	stions:		10	
Section Marks:			15.0	
Q.1 to Q.5 carr	v 1 mark each &	Q.6 to Q.10 c	arry 2 marks each.	
4.7.00 4.00 60.00	,		,	
S wguwkqp'P wo dgt '<3" Choose the most ap sentence.	CONTRACTOR OF STREET		tions given below	to complete the following
	ented the chief o	mest with a		, as token of appreciation.
(A) momento	(B) memer	nto	(C) momentum	(D) moment
Qr vkqpu'\				
1. * A				
2. ✓ B				
3. * C				
4. 🏶 D				
S wguMqp'P wo dgt'<4''	'S wguMqp'V{rg'<(DES		
Choose the appropresentence:	oriate word/phra	se, out of th	e four options give	en below, to complete the following
Frogs				
(A) croak	(B) roar		(C) hiss	(D) patter
Qr vkqpu'\				
1. 🗸 A				
2. 🏶 B				
з. Ж С				
4. # D				

WChoos Files to Real process significant meaning to the given word:

Educe

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

Qr vkqpu'≿

- 1. 🏁 A
- 2. X B
- 3. **√** C
- 4. * D

S wgurkqp'P wo dgt '\'6''S wgurkqp'V{rg'\'OES

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 wguMqp'P wo dgt '<8"S wguMqp'V{rg'<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

Orwand FirstRanker.com 8 B

3. **%** C

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

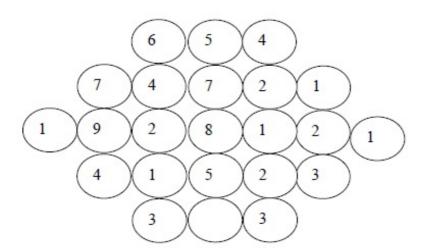
2. 🎺 B

3. × C

4. * D

S wgurkqp'P wo dgt '\!'S wgurkqp'V{ rg'\!PCV

Fill in the missing value



Eqttgev'Cpuy gt <

S wgurkqp'P wo dgt '\'; ''S wgurkqp'V{rg'\'OES

		set 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
Qrvkqpu' < 1. ※ A 2. ※ B			
3. 🗸 C			
4. 🏶 D			
Humpty Dumpty s	"S wguwkqp'V{rg'<0ES sits on a wall every day falls if the wall breaks	_	vall sometimes breaks. A person
Which one of the	statements below is log	cically valid and can be infe	rred from the above sentences?
(B) Humpty Dump (C) Humpty Dump	oty never falls during d	mes while having lunch	ot break
Qr vkqpu'\			
1. ¾ A 2. √ B			
2. ▼ B			
4. * D			
i. D			
		Architecture and	Planning
Number of Ques	stions:	55	
Section Marks:		85.0	
Q.11 to Q.35 ca	arry 1 mark each & Q.36	to Q.65 carry 2 marks each.	
S wgurlqp'P wo dgt '<33	''S wgurlqp'V{rg' <oes< td=""><td></td><td></td></oes<>		
A Housing Finan	nce Institution in the	private sector is	
(A) HUDCO	(B) SBI	(C) PNB	(D) HDFC
Qr vkqpu'< 1. ※ A 2. ※ B 3. ※ C 4. ✔ D			
S wguskqp'P wo dgt '<34	''S wguskap'V{rg'<0ES		

www.ifbrstRebnkeing	Statements regarding P	ERT is NOT true?		
 (A) Each activity of PERT network has three different time estimates (B) Expected activity time is estimated based on β-distribution (C) PERT is a deterministic model (D) PERT network may have more than one critical path 				
Qr vkqpu'< 1. ※ A 2. ※ B 3. ✓ C 4. ※ D				
S wgurlqp'P wo dgt '<35''S wgurle	qp'V{rg' <oes< td=""><td></td><td></td></oes<>			
Damage of foundation	due to 'Soil Liquefaction	on' is related to		
(A) Cyclones	(B) Landslides	(C) Floods	(D) Earthquakes	
Qr vkqpu'< 1. ※ A 2. ※ B 3. ※ C 4. ✔ D				
S wgurkqp'P wo dgt '<36''S wgurk	qp'V{rg'<0ES			
Walls with high therma	Walls with high thermal inertia are suitable in 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 wgurlqp'P wo dgt '<37''S wgurle	ap'V{rg'∀OES			
The ratio of town a 'Garden City' concept		nd area as suggested b	y 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 wgurlqp'P wo dgt '<38"S wgurld	qp'V{rg' <oes< td=""><td></td><td></td></oes<>			

WVAVDEntaltRanClottract 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. * 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 (C) Fine sand (D) Sand saturated with water Qr vkqpu'< 1. 🏁 A 2. X 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 $\{rg' < O E S$ The ratio between illumination at a working point indoor to total light available simultaneously outdoor is known as (A) Daylight Factor (B) Sky Component (C) Internally Reflected Component (D) Externally Reflected Component Qr vkqpu'< 1. 🗸 A 8 B 3. X C 4. * D

WWW.FirstRanker.com Swgwkqp'Pwo dgt'<42"Swgwkqp'V{rg'<OES} Which of the following vehicular traffic intersections converts all crossing into merging and diverging sequences? (A) Rotary (B) Manual Signaling (C) Grade Separation (D) Automatic Signaling

Qr vkqpu'<

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

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

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

(A) Anodizing

(B) Galvanizing

(C) Vitreous Enameling

(D) Powder Coating

Qr vkqpu'<

- 1. 🏁 A
- 2. X B
- 3. X C
- 4. 🖋 D

S wguMqp'P wo dgt '<44''S wguMqp'V{rg'<OES

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

- (A) Sell, Lease, Donate or Bequeath
- (B) Mortgage

(C) Grant Easement

(D) Change in use

Qr vkqpu'\

- 1. 🎇 A
- 2. X B
- 3. X C
- 4. 🗸 D

S wgurlap'P wo dgt '<45"S wgurlap'V{ r g'<O ES

WMATCH Fir Filement con Comp - I with their Applications in Group - II

Group - I

Group - II

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

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

Group - II

- 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

- 1 I. M. Pei
- 2 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. X B
- 3. X 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

- 1. 🗱 A
- 2. 🖋 B
- 3. X C
- 4. * D

Desire Line diagram				
(A) completion of a p (B) meeting demand a (C) determining incor (D) Origin-Destination	and supply in desired ne versus expenditu	l category of housing re pattern of individuals		
Options :				
1. * A				
2. * B 3. * C				
4. ✓ D				
Question Number : 27 Ques	tion Type : MCQ			
			ving assembly and institu m the dead end of a corridor	
(A) 30	(B) 24	(C) 12	(D) 6	
Options: 1. * A 2. * B 3. * C 4. * D Question Number: 28 Ques Which of the followir (A) Master bed room (C) Multipurpose space	ng is a part of a studi	o apartment? (B) Artist's room (D) Children's roo	om	
Options: 1. ★ A 2. ★ B 3. ✔ C 4. ★ D				
Question Number : 29 Ques	tion Type : MCQ			
The Saturation level of	f a colour represents			
(A) distribution	(B) brilliance	(C) darkness	(D) warmth	
Options: 1. ★ A 2. ✔ B 3. ★ C 4. ★ D				

WIMWENT Faired Branks ht Goliven 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. X B
- 3. **√** C
- 4. * D

Question Number: 32 Question Type: MCQ

Group - I

Match the Land use categories of Group - I with their respective Colour codes in Group - II as per practice in India

Group - II

	Group 1	Стопр п	
P	Residential	1 Red	
Q	Commercial	2 Grey	
R	Industrial	3 Blue	
S	Public / Semi-public	4 Violet	
		5 Yellow	
(A)	P-5, Q-3, R-4, S-1	(B) $P-5$, $Q-4$, $R-2$, $S-$	1
(C)	P-1, Q-2, R-4, S-5	(D) $P-1$, $Q-3$, $R-2$, $S-$	4

Options:

- 1. 🗸 A
- 2. 🗱 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/mm^2 is

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

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

Group-I

P Pisa Cathedral, Italy Q St. Hagia Sophia, Istanbul R Great Temple of Aman, Karnak S Cathedral of Notre Dame, Paris

Group-II

- Gothic
 Moorish
- 3 Egyptian4 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

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

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

Group-II

- Industrial Architecture
- 2 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

W Match Files Than locoloop H I with their Definitions in Group – Π

	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)	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



R

Q

S

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

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

- 2. 🖋 B
- 3. Ж С
- 4. × D

Question Number: 41 Question Type: MCQ

Group-II Piazza del Campo, Sienna 1

Forum, Rome 2

Trafalgar Square, London 3

Agora, Athens

St. Peter's Square, Rome 5

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

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

WMarchFileStRams ke Goop II with the appropriate Items in Group - II

Group-I

Toposheet P

Satellite Image Q

Wavelength R

S Scan Line

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

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

Group-II

Path/Row 1

2 Contour

3 Focal Length

4 Spectral Signature

Bits/inch 5

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

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

Options:

- 1. 🗱 A
- 2. X 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
- (C) P-2, Q-1, R-4, S-5

Group-II

- Development occurring on vacant or underused lots in otherwise built up areas
- Development providing a fair and equitable way to 2 integrate peri-urban areas
- Developing a large area as a single entity merging zoning and subdivision control
- 4 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. X 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

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2. **%** B

3. **%** C

4. * D

Question Number: 44 Question Type: MCQ

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

Group-I	
---------	--

P Hertz Q Lux

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:

1. 🍀 A

2. X B

3. **%** C

4. 🗸 D

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:

- 1. 🏁 A
- 2. X B
- 3. 🗸 C
- 4. * D

Question Number: 46 Question Type: MCQ

WMawhFireSVRoantheTyperin Group-I with their related Areas of Application in Group-II

Group-I

P Needle Vibrator Q Shutter Vibrator

Surface Vibrator R S Table Vibrator

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

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

Group-II

- Concrete Pavement
- 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:

- 1. 🗱 A
- 2. 🖋 B
- 3. X C
- 4. * D

Question Number: 47 Question Type: MCQ

Match the type of Temporary Structures in Group - I with their corresponding Functions in Group - II

Group-I Group-II

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

Options:

- 1. 🗸 A
- 2. 🏶 B
- 3. X C
- 4. × D

Question Number: 48 Question Type: MCQ

WMatch Fills Wing Scientific Names in Group - I with their common Indian Names in Group - II

	Group-I	Group-II	
P	Lagerstroemia speciosa	1 Amaltas	
Q	Cassia fistula	2 Neem	
R	Azadarachta indica	3 Jarul	
S	Acacia auriculiformis	4 Babul	
		5 Peepal	
(A)	P-2, Q-4, R-3, S-5	(B) $P-5$, $Q-5$	3, R-2, S-4
(C) I	P-3, Q-1, R-4, S-2	(D) $P - 3$, $Q - 1$	1, R-2, S-4
ptions	s:		

Op

- 1. * A
- 8 B
- 3. * C
- 4. 🗸 D

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:

- 1. 🗱 A
- 2. X B
- 3. * C
- 4. 🗸 D

Question Number: 50 Question Type: MCQ

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

- 1. 🗸 A
- 2. X B
- 3. * C
- 4. * D

Www.FirstRanker.com Match the **Planning Terms** in Group – I with their **Descriptions** in Group – II.

	Group-I		Group-II
P	Gentrification	1	Haphazard and low density outward growth of urban area
Q	Urban core revitalization	2	Primarily dormitory settlement with functional dependency on parent city
R	Urban sprawl	3	Replacement of low income residents with high income population
S	Satellite town	4	Physical and socio-economic revival of the inner-city
		5	Restricted development in an environmentally sensitive zone
(A) P	0-4, Q-3, R-5, S-2		(B) $P-3$, $Q-4$, $R-1$, $S-5$
(C) P	(C) $P-1$, $Q-5$, $R-2$, $S-3$ (D) $P-3$, $Q-4$, $R-1$, $S-2$		(D) $P-3$, $Q-4$, $R-1$, $S-2$

Options:

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

Question Number: 52 Question Type: MCQ

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

	Group-1	Group-II	
P	Broadacre city	1 Le Corbusier	
Q	Radiant city	F. L. Wright	
R	Industrial town	3 Robert Owen	
S	Arcosanti	4 Henry Wright	
		5 Paolo Soleri	
(A)]	P-1, Q-4, R-3, S-5	(B) P-1, Q-3, R-5, S-	2
(C) $P-2$, $Q-1$, $R-3$, $S-5$		(D) $P-2$, $Q-1$, $R-5$, $S-1$	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

www.FirstRanker.com Question Number: 54 Question Type: PCV 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

WWW Notes the analyce of the mal insulation material, the internal heat gain is reduced by 60%. The U-value of the roof slab (without thermal insulation) is 3 W m² / °C. Assuming a constant temperature difference between indoor and outdoor, the U-value of the thermal insulation layer in W m² / °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:
20
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

VAVONSFIESTRANDS OF Mr (L) x 8 m (B) x 2.7 m (H) requires an illumination level of 500 lux on the desk level using 40 W fluorescent lamps with rated output of 5000 lumens each. Assuming utilization factor of 0.5 and maintenance factor of 0.8, the number of lamps required is
Eqttgev'Cpuy gt:
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