otations :				
.Options shown in	green color and with	ı 🗹 icon are correct.		
:Options shown in	red color and with ⁸	icon are incorrect.		
Juestion Paper Name:		CHITECTURE AND PLANN	ING 31st Jan Shift1	
umber of Questions: otal Marks:	65 100.0			
otal Marks.	100.0			
Wrong answer for	or MCQ will result in neg	gative marks, (-1/3) for 1 ma	rk Questions and (-2/3) for 2	2 marks Question
		General Ap	titude	
Number of Questi	ions:	10		
Section Marks:		15.0		
Q.1 to Q.5 carry	1 mark each & Q.6 to C	0.10 carry 2 marks each.		
Juestion Number : 1 Q	Duestion Type : MCO			
		ne options given below to	complete the following	
sentence.	propriate word nom a	ie opiions given ocion to	compress the ronowing	
The principal preser	nted the chief guest wi	th a	, as token of appreciation	1.
(A) momento	(B) memento	(C) momentum	(D) moment	
Options :				
. ✓ B				
. * С				
a ≭ D				
Juestion Number : 2 Q	Question Type : MCQ			
Choose the approprisentence:	iate word/phrase, out	of the four options given	below, to complete the fo	llowing
Frogs				
(A) croak	(B) roar	(C) hiss	(D) patter	
	(=)	(-)	(C) P	
options:				
. ✔ A				
:. ※ B				
. ※ C				
🗱 D				

Educe

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

options:

- , 🏁 A
- : 🗱 B
- : ✔ C
- . 🛎 D

Juestion Number: 4 Question Type: MCQ

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

ptions:

- . 🏶 A
- : 🗱 B
- 1. 🖋 C
- .. 🗱 D

Juestion Number: 5 Question Type: MCQ

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

ptions:

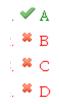
- , 🖋 A
- : 🗱 B
- : 🗱 C
- . ***** D

Puestion Number: 6 Question Type: MCQ

The following question presents a sentence, part of which is underlined. Beneath the sentence you and 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



Juestion Number: 7 Question Type: MCQ

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.

ptions:



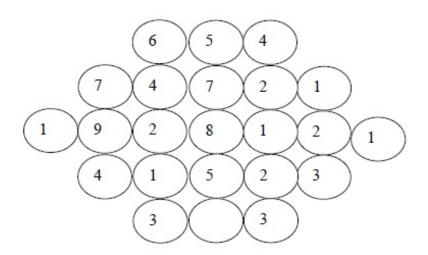




. * D

Duestion Number: 8 Question Type: NAT

Fill in the missing value



'orrect Answer:

Duestion Number: 9 Question Type: MCQ

the number of faces	of the smaller cube	s visible to those which are is	NOT VISIBLE.
(A) 1:4	(B) 1:3	(C) 1 : 2	(D) 2:3
options:			
. 🗱 A			
: ¥ B			
t √ c			
* D			
Duestion Number: 10 (Humpty Dumpty sits sitting on the wall fa	s on a wall every da	ay while having lunch. The w	vall sometimes breaks. A person
Which one of the sta	atements below is l	ogically valid and can be infe	rred from the above sentences?
(C) Humpty Dumpty	y does not fall some y never falls during	etimes while having lunch	ot break
options :			
. 🗱 A			
:. ✔ B			
t * C			
. * D			
2			
			T
		Architecture and	Planning
Number of Question Marks:	ons:	55 85.0	
Section Marks.		65.0	
Q.11 to Q.35 car	ry 1 mark each & Q.3	36 to Q.65 carry 2 marks each.	
uestion Number : 11 (Duestion Type : MCO		
A Housing Finance			
(A) HUDCO	(B) SBI	(C) PNB	(D) HDFC
(A) Hobeo	(B) SBI	(C) FNB	(D) IIDI'C
options :			
. * A			
. ≋ B			
. * C			
. * D			
D			
Question Number : 12 (Question Type : MCQ		

(B) Expected activit (C) PERT is a deter	ty time is estimated base		s	
options:				
. 🗱 A				
. ≋ B				
. ✓ C				
* D				
Question Number : 13 Qu	nestion Type : MCQ			
Damage of foundat	tion due to 'Soil Liquefa	ction' is related to		
(A) Cyclones	(B) Landslides	(C) Floods	(D) Earthquakes	
ptions :				
. * A				
: ≭ B				
. ≭ C				
🗸 D				
Juestion Number : 14 Qu	nestion Type : MCQ			
Walls with high the	ermal inertia are suitable	in which type of climate	?	
(A) Hot-dry	(B) Hot-humid	(C) Temperate	(D) Cold	
ptions :				
. 🗸 A				
: ≋ B				
. ≭ C				
* D				
Juestion Number : 15 Qu	uestion Type : MCQ			
The ratio of tow 'Garden City' cond		land area as suggested	l by Sir Ebenezer Ho	ward in
(A) 1:20	(B) 1:15	(C) 1:10	(D) 1:5	
options :				
. 🗱 A				
: ※ B				
l. ¥ C				
🖍 D				

Question Number: 16 Question Type: MCQ

(A) Lowest Bidder (C) Second Lowest Bidder	(B) Highest Bidder (D) Second Highest Bidder
options:	
. * C	
* D	
Question Number: 17 Question Type: MCQ	
Bulking of sand is highest in	
(A) Coarse sand	(B) Medium sand
(C) Fine sand	(D) Sand saturated with water
ptions :	
. * A	
. * B	
. ✓ C × D	
Duestion Number: 18 Question Type: MCQ	
The Venice Charter (1964) led to the estab	plishment of
(A) International Centre for the Study of the (ICCROM)	he Preservation and Restoration of Cultural Property
 (B) International Council on Monuments a (C) Indian National Trust for Art and Cult (D) Archaeological Survey of India (ASI) 	ural Heritage (INTACH)
ptions :	
. * A	
. ✔ B	
: * С : * D	
Question Number: 19 Question Type: MCQ	
The ratio between illumination at a work outdoor is known as	king point indoor to total light available simultaneously
(A) Daylight Factor	(B) Sky Component
(C) Internally Reflected Component	(D) Externally Reflected Component
ptions:	
. ✓ A	
: * B	
k * C 	

uestion Number: 20 Question Type: MCQ	
Which of the following vehicular traffic is diverging sequences?	ntersections converts all crossing into merging and
(A) Rotary	(B) Manual Signaling
(C) Grade Separation	(D) Automatic Signaling
ptions :	
. ✔ A	
. * B	
. * C	
. * D	
uestion Number : 21 Question Type : MCQ	
The process of spraying Polyester, Polyureth curing onto metals is called	ane, Acrylic and Epoxy Plastic, followed by heat
A) Anodizing	(B) Galvanizing
C) Vitreous Enameling	(D) Powder Coating
ptions: * A * B * C * D	
uestion Number : 22 Question Type : MCQ	
The fundamental right pertaining to property o	wnership in India DOES NOT embrace:
(A) Sell, Lease, Donate or Bequeath	(B) Mortgage
(C) Grant Easement	(D) Change in use
ptions: A B C	

Duestion Number: 23 Question Type: MCQ

.. 🗸 D

Group - I Group - II Bracket P 1 Door 2 Q Baluster Dome R Key stone 3 Cornice Holdfast 4 Arch 5 Staircase (A) P-2, Q-5, R-3, S-1 (B) P-3, Q-5, R-4, S-1 (C) P-3, Q-1, R-4, S-5 (D) P-2, Q-1, R-3, S-4 ptions: . 🏁 A : 🖋 B

uestion Number: 24 Question Type: MCQ

l, **ж** с l, **ж** р

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

	Group – I		Group – II
P Q R S	Wexner Centre for the Visual Arts, Ohio Vitra Fire station, Weilam Rhein, German AT&T Building, New York Sher-e-Banglanagar, Dacca	1 2 3 4 5	I. M. Pei Peter Eisenman Louis Kahn Zaha Hadid Philip Johnson
			Q-5, R-4, S-1 Q-4, R-1, S-5
ptions A B B C			

Juestion 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

ptions:

. 🗱 D

- . 🏶 A
- :. 🖋 B
- 3, ₩ C
- . * D

Desire Line diagram l	nelps in		
(A) completion of a property (B) meeting demand at (C) determining income (D) Origin-Destination	nd supply in desired ne versus expenditure	category of housing pattern of individuals	
Pptions: A B C D Puestion Number: 27 Quest As per Fire Safety		ndia for buildings havi	ng assembly and institutional
			the dead end of a corridor is
(A) 30	(B) 24	(C) 12	(D) 6
Pptions: . ★ A . ★ B . ★ C . ★ D			
Question Number : 28 Quest	tion Type : MCQ		
Which of the followin	g is a part of a studio	apartment?	
(A) Master bed room (C) Multipurpose space	ce	(B) Artist's room (D) Children's room	
<pre>ptions :</pre>			
Question Number : 29 Quest	tion Type : MCQ		
The Saturation level of	a colour represents		
(A) distribution	(B) brilliance	(C) darkness	(D) warmth
Pptions: . ★ A ✔ B ★ C ★ D			

miver iever 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

ptions:

- . 🏁 A
- :. 🖋 B
- : ₩ C
- . 🛎 D

juestion 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

ptions:

- , 🏁 A
- : 🍔 B
- : 🗸 C
- . 🗱 D

Duestion Number: 32 Question Type: MCQ

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

Gir	o	111	n	_	T
~1	•				_

- P Residential
- Q Commercial
- R Industrial
- 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

ptions:

- , 🖋 A
- : 🍔 B
- : ₩ C
- .. 🗱 D

Duestion Number: 33 Question Type: NAT

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

orrect Answer:

Duestion Number: 34 Question Type: NAT

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

orrect Answer:

25

Duestion Number: 35 Question Type: NAT

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

orrect Answer:

6.5 to 17.0

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

ptions :

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

Group-I

P Pisa Cathedral, Italy

St. Hagia Sophia, Istanbul Q Great Temple of Aman, Karnak R

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

Gothic

2 Moorish

3 Egyptian

4 Byzantine

5 Romanesque

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

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

ptions:

Duestion Number: 38 Question Type: MCQ

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

Group-I

Rashtrapati Bhawan, New Delhi P

German Pavilion for World Exhibition, Q

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 1

Deconstruction

3 Radical Eclecticism

4 International Style

Neo Classical 5

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

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

ptions:



.. 🗱 D

Duestion Number: 39 Question Type: MCQ

Group-I

Group-II

P Kinesthesia 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
- Study of human sensory experience during movement 4 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)
$$P-4$$
, $Q-1$, $R-2$, $S-3$

ptions:

.. 🗱 D

Juestion Number: 40 Question Type: MCQ

Q



2

Forum, Rome

R

3

Trafalgar Square, London

S

Agora, Athens

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

St. Peter's Square, Rome 5

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

ptions:

. 🏶 A

:. 🖋 B

. **≭** C

. 🗱 D

Duestion Number: 41 Question Type: MCQ

ramen are a crime in eresp a mini me approprime arenie in eresp ar

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

ptions:

- . ***** A
- : 🗱 B
- . **✓** C
- . 🗱 D

Duestion 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

- 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
- 3 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

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

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

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

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

options:

- . 🏁 A
- :. 🖋 B
- 3, ₩ C
- .. 🗱 D

Properties Puestion Number: 43 Question Type: MCQ

Particles of soil in descending order of grain size is

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

otions :

uestion Number: 44 Question Type: MCQ

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

Group-I

P Hertz Q Lux

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

ptions:

- . 🗱 A
- : 🍔 B
- : * C
- . 🗸 D

Juestion 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

Group-II

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

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

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

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

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

ptions:

- . 🏁 A
- : 🗱 B
- : ✔ C
- .. 🗱 D

Juestion Number: 46 Question Type: MCQ

Group-I

P Needle Vibrator

Q Shutter Vibrator

R Surface Vibrator

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

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

ptions:

. 🗱 A

: 🗸 B

: 🗱 C

.. 🗱 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

To support unsafe structure

Q Formwork

2 To support platforms for workmen and materials at raised

R Shoring

height during construction 3 Removal of water from pits

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

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

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

ptions:

. 🖋 A

: 🍔 B

: * c

. * D

Juestion Number: 48 Question Type: MCQ

Group-I	
Group-1	

P Lagerstroemia speciosa

Q Cassia fistula

R Azadarachta indica

S Acacia auriculiformis

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

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

Group-II

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

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

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

ptions:

- . 🗱 A
- : 🗱 B
- : ***** C
- . 🗸 D

Duestion 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:

- . 🗱 A
- : 🍔 B
- : ₩ C
- .. 🗸 D

Juestion 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

ptions:

- . 🗸 A
- : 🗱 B
- : 🗱 C
- .. 🗱 D

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

ptions:

- . 🗱 A
- : 🗱 B
- : ¥ C
- .. 🖋 D

Juestion Number: 52 Question Type: MCQ

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

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

Juestion Number: 53 Question Type: NAT

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

Puestion Number: 54 Question Type: NAT
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
Correct Answer: 200
Juestion Number: 55 Question Type: NAT
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:
correct Answer: 2000
Juestion Number: 56 Question Type: NAT
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
Correct Answer: 75000
Puestion Number: 57 Question Type: NAT
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
Correct Answer:
Question Number: 58 Question Type: NAT

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
Correct Answer :
Duestion Number: 59 Question Type: NAT
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
Correct Answer:
Puestion Number: 60 Question Type: NAT
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
Correct Answer: 510 to 1530
Duestion Number: 61 Question Type: NAT
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
Correct Answer:
Puestion Number: 62 Question Type: NAT

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
orrect Answer :
uestion Number: 63 Question Type: NAT
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
orrect Answer: 45 to 155
uestion Number : 64 Question Type : NAT
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
orrect Answer: 5178 to 26210
uestion Number : 65 Question Type : NAT
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

'orrect Answer:

.9 to 10