

Q. 1 – Q. 25 carry one mark each.

- Q.1 'Agora' was provided in Greek towns as a place of
(A) Worship (B) Drama
(C) Sports (D) Meeting
- Q.2 The hue at the centre of the Munsell Colour Solid is
(A) Black (B) Grey (C) Sepia (D) White
- Q.3 Which one of the following is **NOT** a traffic calming measure?
(A) Rumble strips (B) Roundabouts
(C) Pedestrian crossings (D) Roadside trees
- Q.4 ECBC stands for
(A) Electrical Conduit in Building Construction
(B) Energy Conservation Building Code
(C) Electrical Credit in Building Code
(D) Energy Credit in Building Construction
- Q.5 Age-Sex cohort for a state in India is obtained from
(A) Census of India (B) Election Commission of India
(C) Indian Statistical Institute (D) Survey of India
- Q.6 'Cover block' is used as a building construction component in
(A) Brick wall (B) Curtain wall (C) Steel truss (D) RC beam
- Q.7 'Villa Savoye', Paris is an example of
(A) Modernism (B) Post Modernism
(C) Deconstructivism (D) Eclecticism
- Q.8 The **least** important measure for reducing cost of site development is
(A) Clustering the units
(B) Eliminating landscaping costs
(C) Reducing road lengths
(D) Narrowing road widths without reducing the right of way
- Q.9 The role of a plasticizer in concrete is to improve
(A) Compressive strength (B) Permeability
(C) Workability (D) Tensile strength
- Q.10 Which one of the following causes seismic irregularity in a building?
(A) Rectangular plan shape (B) Vertical setback
(C) Increase in height (D) Seismic joint
- Q.11 The respective lengths of shadows generated for a free standing wall of given height L by sunlight incident at angles of 30°, 45°, 60°, 90° to the horizontal are
(A) $L\sqrt{3}$, L, $L/\sqrt{3}$, 0
(B) L, $L\sqrt{3}$, $L/\sqrt{3}$, 0
(C) $L/\sqrt{3}$, L, $L\sqrt{3}$, 0
(D) 0, $L/\sqrt{3}$, L, $L\sqrt{3}$

- Q.12 Which one of the following mode is **NOT** categorized as a public transit?
(A) Bus (B) Ferry (C) Taxi (D) Tram
- Q.13 Aerial photography is a useful tool to obtain
(A) Land contour data (B) Land cover data
(C) Land ownership data (D) Landuse data
- Q.14 Which one of the following is biodegradable?
(A) Detergent (B) Leather
(C) Recycled plastic (D) Aluminum foil
- Q.15 The volume of surface runoff is **least** influenced by
(A) existing storm water drainage system (B) amount of rainfall
(C) site slope (D) size of watershed
- Q.16 The best location for laying the main sewer line on a flat land is
(A) under the road (B) under the sidewalk
(C) under the central verge (D) under the open space along sidewalk
- Q.17 Ponding is associated with
(A) RC column (B) Steel column
(C) RC slab (D) Steel truss
- Q.18 Among the following, the urban open space known for its human scale is
(A) Piazza del Campo, Sienna (B) Piazza del Popolo, Rome
(C) St. Peter's Square, Rome (D) Place de la Concorde, Paris
- Q.19 The most appropriate tree for designing a smell sensory pathway is
(A) Delonix Regia (B) Casia Fistula
(C) Bougainvillea (D) Jasminum Augustifolium
- Q.20 Load from a slab to beam is primarily transferred through
(A) axial force (B) bending moment (C) shearing force (D) torsion
- Q.21 Geographic Information System (GIS) combines maps with
(A) computer automation, statistics and topology
(B) computer graphics, databases and analytical tools
(C) computer graphics, informatics and quantitative tools
(D) computer informatics, databases and qualitative tools
- Q.22 'Glazing stop' is used
(A) as a bearing support for glass
(B) to seal the glass against water and air infiltration
(C) to provide lateral support to glass
(D) to provide a cushion between the glass and the glazing pocket
- Q.23 Which one of the following is **NOT** a basic principle of designing people-friendly urban built environment?
(A) Diversity (B) Monotony (C) Adaptability (D) Legibility

- Q.24 SWOT analysis is used for examining a situation's inherent
- (A) Strength, Wastefulness, Opportunity and Tactfulness
 - (B) Sanction, Weakness, Ownership and Threat
 - (C) Strength, Weakness, Opportunity and Threat
 - (D) Support, Wastefulness, Ownership and Transparency

- Q.25 The deflection of a two way slab is primarily a function
- (A) of the long span
 - (B) of the short span
 - (C) mostly of the long span, sometimes short span
 - (D) independent of the long or short span

Q. 26 to Q. 55 carry two marks each.

- Q.26 A painting in a living room needs to be lighted at 250 lux. If the light is incident normally on the painting from a distance of 6 m, then the intensity of light source required (in candela) is
- (A) 1500 (B) 3000 (C) 6000 (D) 9000
- Q.27 Total land area for a plotted housing development project is 50.0 hectare, of which, area under community facilities, common open spaces and roads are 9%, 10 %, and 16 % respectively. Total number of saleable plots of 250 m² each will be
- (A) 1100 (B) 1300 (C) 1500 (D) 1700
- Q.28 A 6m long beam is fixed at its left end and is free at its right end. If a concentrated load of 25kN acts downwards at 4m from the left end, then the bending moment (in kNm) at the left end is
- (A) 0.0 (B) 25.0 (C) 50.0 (D) 100.0
- Q.29 A classroom of 12m x 25m x 4m requires 3 air changes per hour. At an air velocity of 2 m/s, the necessary duct cross section (in m²) is
- (A) 0.50 (B) 0.75 (C) 1.00 (D) 1.25
- Q.30 If the original cost of a building is Rs. 25,00,000/- and its scrap value after 55 years is Rs.25,000/-, then its annual depreciation (in Rs.) using straight line method is
- (A) 25,000 (B) 35,000 (C) 45,000 (D) 55,000
- Q.31 For a pin jointed steel truss system, which of the following statements is **TRUE**?
- (A) Bending moment resisting capacity at any section is zero as members carry axial forces only.
 - (B) Forces in members at any section align in appropriate combination of tension and compression to develop moment resisting capacity.
 - (C) Forces in members at any section align in such a manner as to develop zero moment resisting capacity.
 - (D) Shear resisting capacity at any section is zero as members carry axial forces only

- Q.32 Match the books in **Group I** with their authors in **Group II**

Group I	Group II
P. Space, Time and Architecture	1. Jane Jacob
Q. Form, Space and Order	2. Kevin Lynch
R. The Death and Life of Great American Cities	3. Ian McHarg
S. The Image of the City	4. Francis D K Ching
	5. Gideon S

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

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

Q.33 Match the schemes in **Group I** with their specific targets in **Group II**

Group I	Group II
P. JNNURM	1. Urban Amenities for Rural Areas
Q. IAY	2. Infrastructure and Slum Upgradation
R. PURA	3. Rural Employment
S. NREGA	4. Land Acquisition
	5. Housing for BPL families

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

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

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

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

Q.34 Match the concepts in **Group I** with the personalities in **Group II**

Group I	Group II
P. Linear City	1. Le Corbusier
Q. Radiant City	2. Paolo Soleri
R. Garden City	3. Louis Kahn
S. Arcology	4. Soria Y Mata
	5. Ebenezer Howard

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

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

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

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

Q.35 Match the plan drawings in **Group I** with their respective scales in **Group II**

Group I	Group II
P. Site Plan	1. 1: 4000
Q. Perspective Plan	2. 1: 1000000
R. Master Plan	3. 1: 500
S. Zonal Plan	4. 1: 20000
	5. 1: 2000

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

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

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

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

Q.36 Match the terminologies of **Group I** with their corresponding meanings in **Group II**

Group I	Group II
P. Antarala	1. Antechamber
Q. Mandapa	2. Palace hall
R. Gopuram	3. Womb chamber
S. Prasada	4. Gateway
	5. Pillared sanctuary

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

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

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

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

