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UPSC
Assistant
Architect
Exam Paper

1. A screen, usually of louvers, placed on the outside of a building to shield the windows from direct sunlight is
 - (a) Drum wall
 - (b) Solarium
 - (c) Brise-soleil
 - (d) Trombe-wall

2. A vertical diaphragm acting as a thin, deep cantilever beam in transferring lateral loads to the foundation is
 - (a) Pneumatic structure
 - (b) Shell
 - (c) Membrane
 - (d) Shear wall

3. A glass unit consisting of two or more sheets of glass separated by a hermetically sealed air space, to provide thermal insulation and restrict condensation is
 - (a) Reflective glass
 - (b) Heat-absorbing glass
 - (c) Low emissivity (low-E) glass
 - (d) Insulating glass

4. 'Sky Component' is an element of
 - (a) Earthquake resistant design
 - (b) Daylight factor
 - (c) Rainwater harvesting
 - (d) Thermal performance analysis

5. Architectural design today need not address
 - (a) Climatic considerations
 - (b) Energy efficiency
 - (c) Stylistic affiliations
 - (d) User response

6. Designing responsive architectural spaces requires consideration given to
 - (a) Passive cooling systems
 - (b) Innovation in structural systems
 - (c) Smart building systems
 - (d) User satisfaction

7. Creating architectural design proposals may not include
 - (a) Formulating an area programme
 - (b) Evolving design alternatives
 - (c) Incorporating structure and services into finalized proposal

- (d) Design detail of interior furniture
8. The earliest archeological evidence of urban architecture is from the
- (a) Hoysala period
 - (b) Buddhist period
 - (c) Islamic period
 - (d) Harappan period
9. A white, powdery deposit that forms on an exposed masonry or concrete surface, caused by leaching and crystallization of soluble salts from within the material is
- (a) Effervescence
 - (b) Efflorescence
 - (c) Efficacy
 - (d) Effluent
10. Antonio Gaudi's Architecture is an example of
- (a) Geometric patterns
 - (b) Floral patterns
 - (c) Organic shapes
 - (d) Linear shapes
11. Pablo Picasso was known for his creations in
- (a) Impressionism
 - (b) Pointillism
 - (c) Dadaism

- (d) Cubism
12. The presence of irregularity in design in which regularity still prevails may be defined as
- (a) Anamoly
 - (b) Repetition
 - (c) Radiation
 - (d) Similarity
13. Consider the following statements:
- 1. Kutch lies in hot and semi arid climatic zone
 - 2. Delhi lies in composite climatic zone
 - 3. Delhi lies in warm humid climatic zone
 - 4. Kutch lies in hot and dry climatic zone
- Which of the above statements is/are correct?
- (a) 1 and 2
 - (b) 2 and 4
 - (c) 3 only
 - (d) 4 only
14. Vernacular buildings in hot-dry climate are characterized by
- (a) Elongated plan shapes
 - (b) Large door and window openings
 - (c) Compact form with small courtyards

- (d) Stilted floors for proper ventilation
15. The components that contribute to Daylight Factor are
- (a) Sky component and internally reflected components
 - (b) Externally and internally reflected components
 - (c) Sky component and externally reflected components
 - (d) Sky component, internally and externally reflected components
16. Consider the following statements:
- 1. Flat roofs can reduce heat load in hot-dry climate
 - 2. Light weight sloping roofs prevent indoor temperature to increase above outdoor temperature in warm-humid climate
 - 3. Sloping roofs allow flow of rainwater in warm-humid climate
 - 4. Flat roofs reduce heat load and allow flow of rainwater in composite climate

Which of the above statements are correct?

- (a) 1, 2 and 4
 - (b) 1, 3 and 4
 - (c) 1, 2 and 3
 - (d) 2, 3 and 4
17. Bhimbetka rock shelters, an archeological site, exhibiting the beginning of South Asian Stone Age are located at
- (a) Aihole in Karnataka State
 - (b) Raisen district in Madhya Pradesh State
 - (c) Ellora in Maharashtra State

(d) Perambalur in Tamil Nadu State

18. Consider the following statements:

As per Council of Architecture guidelines, the professional conduct of an Architect shall be

1. Apply his/her skills to the creative, responsible and economic development of his country
2. Not give or take discounts, commissions, gifts and other inducements for the introduction of clients or of work
3. Promote the advancement of Architecture, standards of Architectural education, research, training and practice
4. Provide professional services of a high standard, to the best of his/her ability

Which of the above statements are correct?

- (a) 1, 2, 3 and 4
- (b) 1, 2 and 3 only
- (c) 1, 2 and 4 only
- (d) 2, 3 and 4 only

19. The characteristics of both Dravidian style and Nagara style of Temple Architecture are found in temple complex at

- (a) Mahabalipuram
- (b) Pattadakal
- (c) Konark
- (d) Gwalior

20. Which of the following Publications are by Ar. Charles Jencks?
1. Critical Modernism
 2. Complexity and Contradictions in Architecture
 3. Learning from Las Vegas
 4. The story of Post-Modernism
- (a) 1 and 2
(b) 2 and 3
(c) 1 and 4
(d) 3 and 4
21. The plan of which building is **not** based on the principle of centralized organization?
- (a) Hagia Sophia, Istanbul
 - (b) National Assembly Building Capital Complex, Bangladesh
 - (c) Unite d'Habitation, Marseilles, France
 - (d) Villa Capra (Villa Rotunda) at Vicenza
22. Red House by William Morris belonged to a movement in Architecture, namely
- (a) Art Nouveau
 - (b) Art Deco
 - (c) Post Modernism

- (d) Arts and Crafts Movement
23. The design of a public building must be judged among other things by its capacity to
- (a) Stand apart from the rest of the buildings on the street
 - (b) Connect seamlessly to the street it is on
 - (c) Be easily cordoned off from the public
 - (d) Have clearly demarcated entries for high officials

24. Consider the following statements:

Urban Heat Island is a phenomenon caused

1. by absorption of a high percentage of radiation by the built mass in urban areas
2. by high density and high rise constructions
3. in low rise built up areas

Which of the above statements are correct?

- (a) 1, 2 and 3
- (b) 1 and 2 only
- (c) 1 and 3 only
- (d) 2 only

25. Consider the following statements:

1. Art Nouveau advocates nature as a source of all good design
2. William Morris was the main exponent of the Art Nouveau Movement
3. Art Nouveau was expressed in fabrics first and was later on used in architecture and furniture
4. Art Nouveau objected to borrowing of ideas from the past or other cultures

Which of the above statements are correct?

- (a) 1, 2 and 3
- (b) 1, 3 and 4
- (c) 1, 2 and 4
- (d) 2, 3 and 4

26. Consider the following statements:

Fluttering echo is formed in room in which

1. Opposite walls or floor and ceiling are parallel to each other acoustically
2. Flat surfaces reflect the acoustic wave to a large extent
3. Time between the end of one and the beginning of the next reflected wave is longer than 50 ms

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) 1 and 3

- (d) 2 and 3
27. Float glass is manufactured by
- (a) Drawing the molten glass from a furnace
 - (b) Rolling molten glass into a plate and grinding and polishing it after cooling
 - (c) Pouring molten glass onto a surface of molten tin and allowing it to cool slowly
 - (d) Embedding a square or diamond mesh within the flat or patterned glass
28. Shells are thin, curved, plate structures constructed of reinforced concrete in which
- (a) The structure and membrane are one
 - (b) The structure and membrane are separated
 - (c) There is only membrane and no structure
 - (d) There is only structure and no membrane
29. Magenta is a colour derived from one of the following systems of colours
- (a) Subtractive primary colours
 - (b) Additive primary colours
 - (c) Radiating primary colours
 - (d) Selective primary colours

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30. Design quality indicators for buildings may *not* include
- (a) Functionality
 - (b) Star value of architect
 - (c) Place-making quality
 - (d) Structural stability
31. Zero tolerance in design and production is possible today because of
- (a) Availability of energy-audit tools
 - (b) Availability of highly accurate digital metrology tools
 - (c) Possibility of calculating quantities to many places of decimal
 - (d) Intense professionalism in the field
32. A conic section formed by the intersection of a right circular cone with a plane that cuts through both the axis and the surface of the cone is
- (a) Parabola
 - (b) Ellipse
 - (c) Hyperbola
 - (d) Spheroid
33. In an escalator
- (a) The left handrail moves whilst the right is stationary
 - (b) The right handrail moves whilst the left is stationary
 - (c) Both handrails are moving
 - (d) Both handrails are stationary

34. Pointed Arch, Sexpartite vaulting and flying buttresses were the techniques to span the huge spaces and to handle the thrust in
- (a) Gothic architecture
 - (b) Byzantine architecture
 - (c) Roman architecture
 - (d) Greek architecture
35. Villa Savoye at Poissy, France is a design of internationally famed Architect Le Corbusier's philosophy of
- (a) Five points of Architecture
 - (b) Sectoral Planning
 - (c) Brutalism
 - (d) Surrealism
36. Fatehpur Sikri Palace Complex of Akbar is a good example for
- (a) Clustered organization of space
 - (b) Radial organization of space
 - (c) Linear organization of space
 - (d) Centralized organization of space
37. For which one of the following structures, Marble and Sandstone were used in combination for the first time in an Islamic Architecture?
- (a) Qutub Minar
 - (b) Alai Darwaza
 - (c) Taj Mahal

- (d) Humayun's Tomb
38. Which among the following is *not* a housing project done by Architect B V Doshi?
- (a) Aranya Community Housing, Indore
 - (b) Township of Reliance Industries Ltd, Hazira
 - (c) HUDCO housing, Jodhpur
 - (d) Township of Gujarat State Fertilizer Corporation, Baroda
39. Halebid and Belur temples popularly known as star shaped temples were carved out of which of the following materials?
- (a) Chloritic Schist
 - (b) Sandstone
 - (c) Marble
 - (d) Granite
40. Extensive use of built-in furniture, use of brick-on edge instead of RCC lintel, corbelled arches, filler slabs and brick jalis in the buildings are characteristic features of the architecture of
- (a) Charles Correa
 - (b) Uttam Jain
 - (c) Laurie Baker
 - (d) B V Doshi

41. Which of the following are the characteristics of colonial style of architecture?

- (a) Symmetry
- (b) A long, rectangular floor plan
- (c) A staircase at the back of the house
- (d) Rooms that connect to each other rather than to central hall

42. Human beings have binocular vision that covers about

- (a) 80°
- (b) 100°
- (c) 140°
- (d) 170°

43. Which building is regarded as the first 'modern' building built on Indian soil?

- (a) High Court, Chandigarh
- (b) Indian Institute of Technology, New Delhi
- (c) Golkonde, Pondicherry
- (d) Writers' Building, Kolkata

44. The primary factors for perception of depth are

- (a) Convergence, Accommodation and Disparity due to binocular parallax
- (b) Cognition, Gestalt and Mass
- (c) Density, Volume and Length

- (d) Density, Volume and Height
45. A square standing on its edge appears
- (a) Smaller than the one lying on its side
 - (b) Distorted than the one lying on its side
 - (c) Bigger than the one lying on its side
 - (d) Smaller and distorted than the one lying on its side
46. An Art-Deco Style of Architecture is commonly found in
- (a) Hyderabad and Bangalore
 - (b) Mumbai and Kolkata
 - (c) Ahmedabad and Chandigarh
 - (d) Shimla and Darjeeling
47. Which of the following building was **not** designed by Richard Rogers?
- (a) Pompidou Centre, Paris
 - (b) Lloyds Bank Building, London
 - (c) Guggenheim Museum, Bilbao
 - (d) Millennium Dome, Greenwich
48. The sensitivity to the slightest stimulus differences is psychologically termed as
- (a) Perpetual change
 - (b) Sensory modulation
 - (c) Pregnance of the corresponding perception
 - (d) Perceptual constancy

49. The external circumstances that can influence the mode of appearance of colours are
- (a) Light, Texture and Position
 - (b) Form proportion, Scale and Mass
 - (c) Texture, Form Gestalt and Position in the field
 - (d) Form proportion, Scale and Texture
50. According to Munsell, three colour attributes are
- (a) Light, Dark and Neutral
 - (b) Hue, Value and Chroma
 - (c) Warm, Cold and Temperate
 - (d) Tone, Shade and Tint
51. Periodic repetition of similar, but not identical movements is called
- (a) Balance
 - (b) Continuity
 - (c) Rhythm
 - (d) Similarity
52. In which city are PETRONAS Towers situated?
- (a) New York
 - (b) Tokyo
 - (c) Kuala Lumpur

- (d) Dubai
53. SITE's philosophy is based on the
- (a) Ecological content of architecture
 - (b) Sociological and psychological content of architecture
 - (c) Environment and economical content of architecture
 - (d) All of these
54. Charles Jencks is associated with
- (a) Radical Eclecticism
 - (b) Romanticism
 - (c) Rationalism
 - (d) Surrealistic Eclecticism
55. We regard Human society as a vital process, a continuous development from Atom to Nebula, is the key declaration of
- (a) Metabolism
 - (b) Morpho-typology
 - (c) Archigram
 - (d) Rationalist
56. The street and the square are the only and necessary models for the reconstruction of a
- (a) Public realm
 - (b) Urban area
 - (c) Town

- (d) District
57. The condition of observed connection of senses is called
- (a) Kinesthetics
 - (b) Synesthesia
 - (c) Synthesis
 - (d) Anesthetics
58. Regional surveys are divided into three broad classes dealing with
- (a) Psychological factors, Physical-economic factors and Socio-economic factors
 - (b) Physiological factors, Physical-economic factors and Socio-economic factors
 - (c) Biological factors, Physical-economic factors and Socio-economic factors
 - (d) Physical factors, Physical-economic factors and Socio-economic factors
59. Occupancy rates are arrived by
- (a) Area/density
 - (b) Population density/area
 - (c) Area/accommodation density
 - (d) Population density/accommodation density

60. Which of the following is *not* a major land use zone in a regional plan?
- (a) Industrial zone
 - (b) Agricultural zone
 - (c) Urbanizable zone
 - (d) Commercial zone
61. Class 'B' fire involves
- (a) Electrical equipment
 - (b) Flammable gases
 - (c) Petroleum products
 - (d) Combustible solids of organic nature
62. To withstand earthquake loading, the weakest ductile link in an RCC frame building should be
- (a) Column
 - (b) Beam
 - (c) Floor slab
 - (d) Foundation
63. The layout of Mohenjo-Daro and Harappa cities was based on which particular system of planning?
- (a) Grid iron pattern
 - (b) Sectoral pattern
 - (c) Irregular street pattern

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- (d) Radial street pattern
64. The JNNURM programme requires the participating cities to develop
- (a) Annual Plan
 - (b) Zonal Plan
 - (c) City Development Plan
 - (d) Local Area Plan
65. Most of the earth's mass in the mantle is composed of
- (a) Iron, Magnesium, Aluminium, Silica and Oxygen
 - (b) Potassium, Aluminium and Oxygen
 - (c) Sand, Water and Stone
 - (d) Iron and Silica
66. Carcassonne, France is an example of a particular street system namely
- (a) Organic street system
 - (b) Grid iron street system
 - (c) Concentric and Radial Street system
 - (d) Irregular Medieval system
67. The surface of earth consists of
- (a) 7 major tectonic plates
 - (b) 5 major tectonic plates
 - (c) 4 major tectonic plates
 - (d) 3 major tectonic plates

68. What is the theory of human settlements put forth by Doxiodis called?
- (a) Imagibility
 - (b) Ekistics
 - (c) Neo-urbanism
 - (d) Acropolis
69. Hypocentre is
- (a) The location near the fault
 - (b) The point where the fault first slips or rock breaks
 - (c) The place of concentration
 - (d) The centre away from the fault
70. Three distinct functional parts of most towns are
- (a) Shopping centre, Industrial area and Residential area
 - (b) Plaza, Industrial area and Residential area
 - (c) Central park, Industrial area and Residential area
 - (d) Town centre, Industrial area and Residential area
71. The term 'Liquidated damages' is concerned with
- (a) Bad workmanship
 - (b) Faulty works
 - (c) Inferior quality of material
 - (d) Delay in completion of project

72. In arbitration, two arbitrators appoint the third arbitrator who is known as
- (a) Chief Arbitrator
 - (b) Sole Arbitrator
 - (c) Single Arbitrator
 - (d) Umpire
73. The word NTFP stands for
- (a) Nuts Timber Fruit Products
 - (b) Non Timber Fire Products
 - (c) Nuts Timber Fibre products
 - (d) Non Timber Forest Products
74. The Act which provides for compulsory acquisition of land or property for a public purpose is
- (a) Consumer Act
 - (b) Architects Act 1972
 - (c) The Land Acquisition Act 1894
 - (d) Easement Act
75. The method of valuation used commonly for single use commercial properties like marriage halls, cinema theatres etc is
- (a) Profit capitalization method (Profit method of valuation)
 - (b) Rent capitalization method (Rent method of valuation)
 - (c) Development potential method (Development method of valuation)

- (d) Land and building method
76. The sum provided for work or services to be executed by a nominated sub-contractor or for materials/goods to be obtained from a nominated supplier is called
- (a) Provisional cost sum
 - (b) Prime cost sum
 - (c) Bill of quantities
 - (d) Final sum
77. Which of the following is a statutory professional body in Architecture as passed by Parliamentary Act?
- (a) Indian Institute of Architects
 - (b) Council of Architecture
 - (c) Institute of Indian Interior Designers
 - (d) Institution of Engineers
78. Consider the following statements:
- A building contract is
1. An agreement under which a contractor undertakes the execution of construction work for certain payment from an employer
 2. It is an offer in writing for executing certain specified work
 3. It is a decision given by the architect after careful investigation of documents
- Which of the above statements is/are correct?
- (a) 1 only
 - (b) 2 only
 - (c) 3 only

- (d) 1, 2 and 3
79. The term 'PPP' in the field of architecture and urban development commonly refers to
- (a) Public Private Partnership
 - (b) Picture Promote Produce
 - (c) Public Private Project
 - (d) Painting Plumbing Perspectives
80. Vegetative cover, particle size, slope, intensity of precipitation and wind velocity, all affect a soil's
- (a) Fertility
 - (b) Moisture retention
 - (c) Erodibility
 - (d) Bearing capacity
81. In residential buildings dados can be provided in
- (a) Toilets
 - (b) Kitchens
 - (c) Staircases
 - (d) Any space where there is need to protect the wall surface
82. The Garden designs based on spiritual concepts are
- (a) Japanese Garden
 - (b) Mughal Garden
 - (c) Spanish Garden

- (d) English Garden
83. According to Christian Norberg-Schulz, to become a true form the street has to possess
- (a) Harmony
 - (b) Figural character
 - (c) Consistent character
 - (d) Balance
84. Plumeria Alba belongs to which of the following categories of softscape?
- (a) Tree
 - (b) Herb
 - (c) Grass
 - (d) Ground cover
85. Which of the following Indian trees is 'Evergreen'?
- (a) Gulmohar
 - (b) Bahawa
 - (c) Subabhul
 - (d) Mango
86. Which pattern of layout is most commonly seen in Mughal Gardens?
- (a) Char bagh
 - (b) Chashme Shahi
 - (c) Jor bagh
 - (d) Firdausi

87. The art of clipping plants and trimming foliage to develop and maintain clearly defined shapes is called
- (a) Art Nouveau
 - (b) Installations
 - (c) Scissor's art
 - (d) Topiary
88. X-cracking will occur in the pier of masonry wall because
- (a) Vertical reinforcement is not provided
 - (b) Lintel is not provided properly
 - (c) Masonry wall is weak in tension
 - (d) Masonry piers are slender
89. Which of the following characteristics should a structure possess to be earthquake responsive?
- (a) Permeability
 - (b) Ductility
 - (c) Mobility
 - (d) Stability
90. Liquefaction is a case where the soil will have
- (a) Very little strength and will behave badly
 - (b) High strength and will behave like a liquid
 - (c) Very high strength and resist earthquake

- (d) Very little strength and will behave more like a liquid than a solid
91. Epicentre is
- (a) The point away from the fault
 - (b) 1.5 metres above the fault
 - (c) The point on the earth's surface directly above the focus
 - (d) 6 metres above the fault
92. Strike slip fault is a condition when
- (a) The rocks on either side of fault slide past each other
 - (b) All rocks slide past each other
 - (c) The rock slips
 - (d) The centre part of the rock slips
93. Intensity of Earthquake is measured by MSK scale and it refers to
- (a) Mendel Schumacher-Kohn
 - (b) Medvedev Sponheuer-Karnik
 - (c) Meter Second Kilo
 - (d) Michael Stone Korus
94. Vibroflotation is a method adopted to reduce
- (a) S-Waves
 - (b) P-Waves
 - (c) Liquefaction hazards

- (d) Ground shaking
95. In seismic evaluation, RVS refers to
- (a) Reverse Value System
 - (b) Repeat Value Set
 - (c) Rapid Visual Screening
 - (d) Reference Vent System
96. The amount of ground displacement in an earthquake is called the
- (a) Epicenter
 - (b) Dip
 - (c) Slip
 - (d) Focus
97. Which of the following is one of the five elements that form 'Image of a City'?
- (a) Nodes
 - (b) Malls
 - (c) Metro rail
 - (d) Trees
98. The term 'pediment' refers to
- (a) Roof of the building in Greek architecture
 - (b) A decorative element, placed above horizontal structures associated with Classical European Architecture
 - (c) A large public space enclosed by classical buildings

- (d) A structural element to distribute dead load of a building to its foundation
99. Seismic Zone-V refers to
- (a) Less occurrence of Earthquake
 - (b) More frequent and large size Earthquake occurrence
 - (c) Insignificant size Earthquake
 - (d) Minor Earthquake
100. The term 'Vista' in Architecture and Urban Design refers to
- (a) A line of vision, contained by buildings or landscaping to a building or other feature which terminates the view
 - (b) A large public space surrounded by imposing buildings
 - (c) Visual connection from one landmark to another
 - (d) Variation in the plane of a building wall, often used to provide visual interest
101. The concept EPCOT refers to
- (a) Experimental prototype community of tomorrow
 - (b) Experienced people of community of today
 - (c) Elite people's community of tomorrow
 - (d) Elaborate population in community of tomorrow

102. Which of the following factors are associated with the behavior of sand mass during Earthquake to cause liquefaction?

1. Number of stress cycles
2. The frequency and amplitude of vibration of waves generated by an earthquake
3. Characteristics of sand
4. Relative density

- (a) 1, 2 and 3 only
- (b) 1, 2, 3 and 4
- (c) 1, 2 and 4 only
- (d) 2, 3 and 4 only

103. Arches are constructed with radiating wedge shaped blocks of stones or bricks called

- (a) Voussoirs
- (b) Springers
- (c) Abutment
- (d) Soffit

104. Which of the following measures reduce land take impact?

- (a) Minimize building footprint
- (b) Increase building footprint
- (c) Increase roof surface area

- (d) Increase wall area
105. Representative of an Architect on site, referred to as 'eyes and ears' of an Architect, reporting to Architect but paid by the owner is called
- (a) Site Supervisor
 - (b) Clerk of Works
 - (c) Project Management Consultant
 - (d) Superintending Engineer
106. Middle management level training in construction should cater for
- (a) Better financial management
 - (b) Account management and computer skills
 - (c) First aid methods
 - (d) Improving technical skills
107. At a work site, statistical quality control of concrete means
- (a) To estimate failures
 - (b) Applying the theory of probability to sample testing
 - (c) Reduction in wastage costs
 - (d) Removal of defects
108. Floor Area Ratio (FAR) is defined as
- (a) The quotient obtained by dividing the total covered area on all floors by the area of the plot
 - (b) The quotient obtained by dividing the total covered area on ground floor by area of the plot
 - (c) The quotient obtained by dividing the total covered area on all floors by covered area on ground floor

- (d) Ratio between covered area and open area
109. Which technique of project network analysis is best suited for planning and controlling projects involving uncertainties
- (a) Critical Path Method
 - (b) Project Evaluation and Review Technique
 - (c) Precedence Network Analysis
 - (d) Bar chart method
110. Consider the following statements regarding 'Critical path in the network':
1. It is the longest path
 2. It is the path of critical activities
 3. It is the most sensitive path
 4. It is the shortest path
- Which of the above statements are correct?
- (a) 1 and 3 only
 - (b) 2 and 4 only
 - (c) 1, 2 and 3 only
 - (d) 3 and 4 only
111. The technique for establishing and maintaining priority among various jobs of a project is known as
- (a) Even flow scheduling technique
 - (b) Critical ratio scheduling
 - (c) Slotting technique for scheduling
 - (d) Short interval scheduling

112. Sustainable planning considers environmental, social, and
- (a) Technological impacts of a building
 - (b) Economic impacts of a building
 - (c) Political impacts of a building
 - (d) Biological impacts of a building
113. The site inscribed as World Heritage sites in India in 2013 is
- (a) Western Ghats
 - (b) Hill forts of Rajasthan
 - (c) Mountain range in Nilgiris
 - (d) Mountain railways Kalka-Shimla
114. What does 'BOCA' stand for in the NBC?
- (a) Building Operation Construction Activity
 - (b) Built Operation Construction Amenities
 - (c) Building Operation Construction Administration
 - (d) Building Official and Code Administration
115. The best and maximum level of sound insulation is given by
- (a) Rigid homogeneous type of wall construction
 - (b) Partition walls of porous materials
 - (c) Cavity wall construction
 - (d) Double wall partition type of wall construction

116. The lamps used for flood lighting and sports lighting is
- (a) Metal Halide lamps
 - (b) Mercury lamps
 - (c) High pressure sodium lamps
 - (d) Fluorescent lamps
117. The valve which allows the flow of liquid or gas in one direction only is called
- (a) Reflux valve
 - (b) Sluice valve
 - (c) Relief valve
 - (d) Scour valve
118. As per the National Building Code, ramps when provided for pedestrian access between floors shall have a slope of
- (a) 1:10
 - (b) 1:20
 - (c) 1:8
 - (d) 1:15
119. Which of the following is NOT part of National Building Code, 2005?
- (a) Structural design
 - (b) Building services
 - (c) Sustainable design

(d) Plumbing services

120. Consider the following statements:

1. Less is bore
2. Less is more
3. Form follows function
4. Ornamentation is crime

Which of these statements describes modernism?

- (a) 1 and 3 only
- (b) 1, 3 and 4
- (c) 2, 3 and 4
- (d) 1 and 4 only

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