

PART III

08 - ARCHITECTURE

(Answer ALL questions)

56. _____ is a metamorphic rock
- granite
 - basalt
 - marble
 - Laterite
57. _____ foundation is a special type of isolated footing generally provided for heavily loaded steel structures
- Pile
 - Raft
 - Grillage
 - Strip
58. Excess Alumina in brick makes brick
- Crack
 - Crack and warp on drying
 - Reduce to powder
 - Shrink
59. Testing compressive strength of cement size of cube used is
- 150mm
 - 50mm
 - 75mm
 - 200mm
60. Seasoning of Timber
- To make it water resistant
 - To increase the strength
 - To paint the surface
 - To remove water
61. Which of following is purest form of iron?
- Cast Iron
 - Wrought iron
 - Mild steel
 - Hydrocarbon steel
62. Which changes are noted when glass is heated?
- It becomes brittle
 - It bursts
 - It becomes softer
 - It solidifies
63. Which of the following is not a common property of plastics?
- Non-reactive
 - Durable
 - Light in weight
 - Good conductor of Electricity
64. The main advantage of pre-stressed concrete piles over traditional reinforced concrete steel piles is _____
- Beam carrying capacity
 - Moment carrying capacity
 - Column carrying capacity
 - Foundation carrying capacity
65. Ferro cement is a composite material consisting of the following
- Cement - lime mortar
 - Cement - sand mortar with small diameter wire mesh
 - Surki mortar with small diameter wire mesh
 - Lime and sand mortar
66. Ribbed vault is a characteristic of
- Renaissance architecture
 - Neo-classic architecture
 - Gothic architecture
 - Roman architecture
67. Cornice, Frieze and architrave are part of
- Entablature
 - Pediment
 - Shaft
 - Base

68. Circus Maximus was a public space used for
- Market activities
 - Horse Racing
 - Theatres and plays
 - Combats
69. Complexity and Contradiction in Architecture was written by
- Charles Moore
 - Michael Graves
 - Charles Jencks
 - Robert Venturi
70. Cathedral of Brasilia was designed by
- Oscar Niemeyer
 - Eric Mendelson
 - Walter Gropius
 - John Utzon
71. Bird's Nest, Beijing was designed by
- P.L.Nervi
 - Santiago Calatrava
 - Herzog & de Meuron
 - Chris Bosse
72. Harmika and Torana are parts of
- Chaityas
 - Viharas
 - Stupas
 - Stambhas
73. Pietra Dura refers to
- Inlay work in stones and marbles
 - Street layout of Roman villages
 - Plan feature of a church
 - A type of Flemish bond
74. Kenzo Tange, Kiyonari Kikutake, Kisho Kurukawa were part of
- Brutalist movement
 - Metabolism movement
 - De stijl movement
 - De constructivist movement
75. Which of the following was not designed by Anant Raje?
- Indian Institute of forest management, Bhopal
 - Farmer's training Institute, Gujarat
 - MAFCO wholesale market, Mumbai
 - National institute of immunology, Delhi
76. Golden ratio is
- 1.618
 - 1.816
 - 1.861
 - 1.168
77. What indicates a position in space?
- line
 - point
 - plane
 - volume
78. What type of form composition is Habitat 97 by Moshe Safdie?
- radial form
 - grid form
 - linear form
 - cluster form
79. What is the quality of surface treatment that is associated with materials?
- Tone
 - Texture
 - Mass
 - Volume
80. The balanced distribution and arrangement of equivalent forms and spaces on opposite sides of a dividing line or plane or about a central axis is called
- symmetry
 - rhythm
 - hierarchy
 - datum

81. Embryological house was a conceptual work of
- Lars Spuybroek
 - Hani Rashid
 - Greg lynn
 - Neil Denari
82. "The next room is always where I need it to be" is a concept by Marcos Novak in
- Robotic architecture
 - Kinetic architecture
 - Liquid architecture
 - Blobitecture
83. Spatial relation and rules are generally established for designing through
- Shape grammar
 - Fractals
 - 3D animation
 - Motion kinematics
84. Which one of the following is not a characteristic of topological surfaces?
- No strict definition of inside and outside
 - Un-orientable mathematical properties
 - Complexity of space
 - Euclidean geometry
85. Which of the following does not take inspirations from nature?
- Bionic architecture
 - Genetic algorithms
 - NURBS and BLOBS
 - Emergence
86. The unit of illuminance is
- Candela
 - Lux
 - Lumens per sqm
 - Lux per sqm
87. Out of the following, the quality of lighting is better when the Colour rendering index is
- 10
 - 25
 - 55
 - 81
88. Traps are used to prevent
- backflow
 - odour
 - insects
 - all of the above
89. As per NBC 2016, the value of water supply per head for communities with population 20,000 to 1,00,000 with flushing facility is
- 50 -100 lpcd
 - 100 -135 lpcd
 - 135 - 200 lpcd
 - 220 lpcd
90. Bus bars are used in buildings for
- Vertical transportation
 - Electricity distribution
 - Parking
 - None of the above
91. Daylight factor is
- $(E_o / E_i) \times 100\%$
 - $(E_i / E_o) \times 100\%$
 - E_i / E_o
 - E_o / E_i
- (E_i = illuminance due to daylight at a point on the indoors working plane, E_o = simultaneous outdoor illuminance on a horizontal plane from an unobstructed hemisphere of overcast sky.)
92. Mashrabiya refers to
- A timber lattice window
 - A prayer space in mosque
 - Clerestory to provide light
 - Natural cooling system

93. Summer solstice in Northern hemisphere falls on
- June 20
 - June 21
 - March 20
 - March 21
94. Water wall is provided for
- Passive heating
 - Passive cooling
 - Remove humidity
 - Increase humidity
95. Wing wall is provided
- For induced ventilation
 - Partition
 - Dynamic facade
 - To obstruct circulation
96. Pipes recommended for hot water supply in building is
- CPVC
 - Copper
 - Cast iron
 - Lead
97. Jockey pumps are used in
- Fire safety systems
 - Water supply system
 - Building automation
 - All of the above
98. Topiary refers to
- Ornamental clipping of vegetation
 - Topography of the site
 - Aerial photography
 - Dry landscape
99. Root zone system is used in
- Effluent treatment
 - Sustainable Landscape
 - Landscape conservation
 - None of the above
100. SCADA is
- A supervisory control
 - Development Authority
 - Energy efficient program
 - Unit of optics
101. Strobe light refers to
- Emergency lighting
 - Wall washer
 - Focus lighting
 - Ambient lighting
102. Reverberation time for medium sized, general purpose auditoriums is
- 1.5 seconds
 - 2 seconds
 - 1 second
 - 2.5 seconds
103. Creep effect is experienced in
- Domes
 - Pitched roofs
 - Flat roofs
 - Non parallel walls
104. Wind rose is a
- Diagram
 - Hybrid variety
 - Extinct flower
 - Indigenous Indian flower

105. Wind towers are commonly found in
- Hot dry climatic zones
 - Warm and humid climatic zones
 - Tropical climatic zones
 - Composite climatic zones
106. Who developed concentric zone theory?
- Gideon
 - Burgess
 - Tony Garnier
 - Doxiadis
107. Housing for all was created by which nodal agency – by merging Rajiv Aawas Yojana and Rajiv Rinn Yojana?
- H.U.D.C.O + N.H.B
 - H.D.F.C + N.H.B
 - N.H.B
 - N.A.B.A.R.D
108. When was the 1st ever Housing policy formulated in India?
- 1950
 - 2007
 - 1988
 - 1994
109. Affordability level of MIG household is
- > 40% of gross monthly income
 - > 30% of gross monthly income
 - > 20% of gross monthly income
 - > 10% of gross monthly income
110. Basic services of urban poor were made part of
- INSITU slum development
 - National slum development program
 - Slum rehabilitation scheme
 - JNNURM
111. Belapur housing in Navi Mumbai was designed as part of
- MUDP
 - JNNURM
 - CIDCO
 - IHUDP
112. Neighborhood concept was crystallized in early 1900s is by
- Fredrik law homestead
 - C.A Perry
 - Le Corbusier
 - Frank loyd Wright
113. Ebenezer Howard built the following garden city
- Letch worth
 - Kowloon
 - Tel Aviv
 - Hai Phong
114. Gentrification means
- Replacement of the low income residence with high income population
 - Socio economic revival
 - Restricted development
 - Low density development
115. Satellite town means
- Outward growth of urban area
 - Primarily dormitory settlement with functional dependency with parent city
 - Infill growth in inner city
 - Restricted growth in environmentally sensitive area