

Sl. No. : 70000257

DARC 2012

Register
Number

--	--	--	--	--	--	--	--

2012
ARCHITECTURE
(Degree Standard)

Time Allowed : 3 Hours]

[Maximum Marks : 300

Read the following instructions carefully before you begin to answer the questions.

IMPORTANT INSTRUCTIONS

1. This Booklet has a cover (this page) which should not be opened till the invigilator gives signal to open it at the commencement of the examination. As soon as the signal is received you should tear the right side of the booklet cover carefully to open the booklet. Then proceed to answer the questions.
2. This Question Booklet contains **200** questions.
3. Answer **all** questions.
4. **All** questions carry equal marks.
5. You must write your Register Number in the space provided on the top right side of this page. Do not write anything else on the Question Booklet.
6. An Answer Sheet will be supplied to you separately by the Invigilator to mark the answers. You must write your Name, Register No., Question Booklet Sl. No. and other particulars with Blue or Black ink Ball point pen on side 2 of the Answer Sheet provided, failing which your Answer Sheet will not be evaluated.
7. You will also encode your Register Number, Subject Code, Question Booklet Sl. No. etc. with Blue or Black ink Ball point pen in the space provided on the side 2 of the Answer Sheet. If you do not encode properly or fail to encode the above information, your Answer Sheet will not be evaluated.
8. Each question comprises *four* responses (A), (B), (C) and (D). You are to select **ONLY ONE** correct response and mark in your Answer Sheet. In case, you feel that there are more than one correct response, mark the response which you consider the best. In any case, choose **ONLY ONE** response for each question. Your total marks will depend on the number of correct responses marked by you in the Answer Sheet.
9. In the Answer Sheet there are **four** brackets [A] [B] [C] and [D] against each question. To answer the questions you are to mark with Ball point pen **ONLY ONE** bracket of your choice for each question. Select one response for each question in the Question Booklet and mark in the Answer Sheet. If you mark more than one answer for one question, the answer will be treated as wrong e.g. If for any item, [B] is the correct answer, you have to mark as follows :
[A] [C] [D]
10. You should not remove or tear off any sheet from this Question Booklet. You are not allowed to take this Question Booklet and the Answer Sheet out of the Examination Hall during the examination. After the examination is concluded, you must hand over your Answer Sheet to the Invigilator. You are allowed to take the Question Booklet with you only after the Examination is over.
11. Failure to comply with any of the above instructions will render you liable to such action or penalty as the Commission may decide at their discretion.
12. Do not tick-mark or mark the answers in the Question booklet.
13. The last sheet of the Question Booklet can be used for Rough Work.

SEAL



1. The following low cost technique was developed by the great "Ar. Laurie Baker".
 (A) The Brick Funicular Shell Roof. (B) The Waffle Shell Roof.
 (C) Rat Trap Bond. (D) Folded Plate Roofing.

2. Primary generator of form in design is
 (A) Plane (B) Point
 (C) Line (D) Volume

3. The scientific concept of describing and analyzing colour in terms of three dimensions of hue, value and chroma is called
 (A) The palette system (B) The munsell system
 (C) The ostwald system (D) Brewster system

4. The balanced distribution of equivalent forms and spaces about a common line (axis) or point (centre) is
 (A) Rhythm (B) Hierarchy
 (C) Datum (D) Symmetry

5. The process of assembling or putting into place the completed or fabricated components of building is
 (A) Creating (B) Constructing
 (C) Erecting (D) Executing

6. 'Falling Water' is the other name of
 (A) Moore's House (B) Kaufmann's House
 (C) Poissey House (D) Mill owner's House

7. Which of the following stones are predominantly found in Kerala ?
 (A) Sandstone (B) Laterite
 (C) Gneiss (D) Limestone

8. Asian Games Village at Delhi was designed by
 (A) Anant Raje (B) Raj Rewal
 (C) A.P. Kanvinde (D) Charles Correa

9. F.L. Wright's Oak Park, Illinois is an example for
 (A) Repetition (B) Contrast
 (C) Symmetry (D) Rhythm

10. Which one of the following visual weightage comparison is right ?
 (A) Pyramidal > Cylinder > Cube > Sphere
 (B) Pyramidal > Cube > Cylinder > Sphere
 (C) Pyramidal > Cube > Sphere > Cylinder
 (D) Pyramidal > Cylinder > Sphere > Cube

11. Olivetti Training School, England is an example for
 (A) Hierarchy (B) Symmetry
 (C) Repetition (D) Rhythm
12. Trulli Village, located at Italy is famous for its
 (A) Radial Organisation (B) Grid Organisation
 (C) Clustered Organisation (D) Linear Organisation
13. The proportioning system developed by Greeks is
 (A) Renaissance Theories (B) Classical Orders
 (C) Golden Section (D) Structural Proportion
14. An example for clustered organisation is
 (A) Kaufmann House, California (B) Baker House, Cambridge
 (C) Fathepur Sikri (D) Pantheon, Rome
15. Which one of the following is an example for corner articulation ?
 (A) Hoffman House, New York
 (B) Palazzo Medici, Florence
 (C) CBS Building, New York
 (D) Commonwealth Promenade Apartments, Chicago
16. Visual qualities of cone are
 (A) Stability & Circularity (B) Circularity & Verticality
 (C) Stability & Verticality (D) Verticality & Horizontality
17. A _____ color scheme consists of various tints or shades of a single neutral color such as gray, beige or cream etc.
 (A) complementary (B) monotone
 (C) supplementary (D) harmony
18. The alternate courses consist of stretchers and headers are called
 (A) Flemish Bond (B) English Bond
 (C) Garden - Wall Bond (D) Monk Bond
19. _____ a by-product of the mechanical harvesting and threshing of grains are produced in large quantities in mechanized agricultural countries.
 (A) Straw bales (B) Card board
 (C) Paper crete (D) None of the above
20. Plasticizers are added to
 (A) increase the workability of a concrete mix.
 (B) increase the rate of set of a concrete mix.
 (C) decrease the workability of a concrete mix.
 (D) decrease the rate of set of a concrete mix.

21. 'Parkersing' is a method used for
 (A) Prevention of corrosion of ferrous metals
 (B) Prevention of decay of timber
 (C) Strengthening of concrete
 (D) None of the above
22. Which paint is visible in darkness?
 (A) Cellulose paint
 (B) Aluminium paint
 (C) Cement paint
 (D) Bitumen paint
23. The term 'refractories' is used to indicate substances
 (A) that can resist high temperatures.
 (B) that can resist corrosion.
 (C) that can resist deformation.
 (D) that can resist decay.
24. A white crystalline substance which appears on the surface of a wall due to presence of salts in plaster making as well as in the building materials is called
 (A) Flaking
 (B) Efflorescence
 (C) Peeling
 (D) Blistering
25. Plastics which undergo chemical change when heated at about 127° - 177° producing a new inert material which does not soften on subsequent heating is called
 (A) Thermosetting plastics
 (B) Thermoplastics
 (C) Thermoplastic elastomers
 (D) Gel
26. Glass produced by bonding together two or more pieces of glass with plastic interlayers is called:
 (A) Laminated Glass
 (B) Plate Glass
 (C) Float Glass
 (D) Wired Glass
27. 'Knotting' means
 (A) The process of sealing the knots
 (B) The process of scrapping the knots
 (C) The process of applying paint over the knots
 (D) None of the above
28. Aluminium based paints are otherwise known as
 (A) Bituminous Paints
 (B) Fire Proof Paints
 (C) Luminous Paints
 (D) Acid Proof Paints
29. A course of stone which is laid at the top of the wall is called
 (A) Corbel
 (B) Coping
 (C) Sill
 (D) Joist
30. Aggregates affecting durability of concrete most are
 (A) rounded
 (B) all in aggregate
 (C) flaky
 (D) irregular

31. Which of the following is used for making electrical switches ?
 (A) PVC (B) polypropylene
 (C) Bakelite (D) Polyvinyl acetate
32. The building element provided to resist thrusts from roof trusses or to strengthen the main walls or boundary walls is known as
 (A) Buttress (B) Retaining Wall
 (C) Pinnacle (D) Footing
33. Identify the type of wall from the following clues :
 (i) There is no contact between the inner & outer leaves of this wall.
 (ii) This wall offers good insulation against sound.
 (iii) This is a good insulation against heat.
 (A) Cavity Wall (B) Hollow Clay Block Masonry
 (C) Composite Masonry (D) Reinforced Brick Masonry
34. The degree to which the volume of the material is interspersed with pores
 (A) Hygroscopicity (B) Refractoriness
 (C) Porosity (D) Durability
35. In a stone masonry the external corners or angles of a wall surface are called
 (A) string course (B) spalls
 (C) quoins (D) sill
36. For compacting factor test of cement concrete determines its
 (A) strength
 (B) porosity
 (C) degree of compaction under loads
 (D) workability
37. For marine works, the best suited cement is
 (A) low heat Portland cement (B) rapid hardening cement
 (C) ordinary Portland cement (D) blast furnace slag cement
38. Which of the following gives maximum strength in concrete ?
 (A) Rounded Aggregate (B) Elongated Aggregate
 (C) Flaky Aggregate (D) Cubical Aggregate
39. A natural method of sewage disposal is
 (A) dilution (B) imhoff tanks
 (C) cess pools (D) septic tanks
40. Volume of septic tank is decided by taking into consideration
 (A) Requirement of water
 (B) Quantity of flow
 (C) Detention period
 (D) The quantity of flow and detention period

41. 'Drop manhole' is provided when the level difference in two sewers coming at a manhole is
 (A) greater than 60 m (B) greater than 100 m
 (C) greater than 20 m (D) greater than 10 m
42. Accessories which are used for adjusting light levels increasing lamp life and saving energy are called
 (A) Reflectors (B) Dimmers
 (C) Diffusers (D) Simulators
43. The unit of measure for the intensity of light in a given direction is
 (A) Lumen (B) Footcandle
 (C) Candle (D) Foot lamberts
44. A building has a cooling load when the
 (A) outdoor temperature is above 40° F.
 (B) combined load components cause heat to enter the building more rapidly than it leaves.
 (C) combined load components cause heat to leave the building more rapidly than it enters.
 (D) thermostat is turned down.
45. In the heating mode at about what temperature should the air leave the supply diffusers in an air conditioning system ?
 (A) 110° F (B) 160° F
 (C) 90° F (D) 80° F
46. The permissible speed limit of escalators is
 (A) 0.6 m/s (B) 0.75 m/s
 (C) 0.5 m/s (D) 1.0 m/s
47. The recommended flight angle for staircase is
 (A) 10° (B) 23°
 (C) 45° (D) 60°
48. Domestic Sewage means
 (A) The liquid wastes conducted away from residences, business buildings and institutions.
 (B) The liquid wastes from industrial establishments.
 (C) Storm, surface and ground water.
 (D) All the above.
49. Sick Building Syndrome (SBS) is due to
 (A) sealed windows, recirculated air (B) high density occupation
 (C) low negative ion content (D) all the above

50. The temporary hardness of water is otherwise known as
 (A) Carbonate hardness (B) Sulphate hardness
 (C) Phosphate hardness (D) None of the above
51. The other name for reflux valves are
 (A) Relief Valves (B) Bib clocks
 (C) Air Valves (D) Check Valves
52. Which one of the following is not correctly matched ?
- | Degree of Hardness | Nature of Water |
|---|----------------------|
| <input type="checkbox"/> (A) 2 | Very Soft Water |
| <input checked="" type="checkbox"/> (B) 9 | Soft Water |
| <input type="checkbox"/> (C) 15 | Excessive Hard Water |
| <input type="checkbox"/> (D) 20 | Too Hard to Use |
53. Which of the following is not a treatment process of water ?
 (A) Screening (B) Sedimentation
 (C) Filtration (D) Precipitation
54. The type of fire extinguisher preferable for oil fire is
 (A) water (B) dry powder
 (C) foam (D) vapourising liquid
55. The quantity of light given off by a light source is measured in
 (A) Watt (B) Lux
 (C) Lumen (D) Volt
56. Dumbwaiters are also known as
 (A) Sidewalk elevators (B) Freight elevators
 (C) Hydraulic elevators (D) Capsule lifts
57. The maximum angle of inclination of a moving ramp is
 (A) 10° (B) 15°
 (C) 20° (D) None of the above
58. $\text{pH} < 7$ indicates
 (A) Acidity (B) Alkalinity
 (C) Chemical purity (D) Impurity
59. Bulking of sand refers to
 (A) the presence of moisture in sand.
 (B) the presence of impurities in sand.
 (C) the presence of alkalis in sand.
 (D) above all.

60. The unit of measurement for luminous intensity is
 (A) lumen (B) candela
 (C) lumens / sq.m (D) lumens / watt
61. 'Less is More' was said by
 (A) Louis Kahn (B) F.L. Wright
 (C) Le Corbusier (D) Mies-Van-der Rohe
62. The Indus Valley Civilization excavations of Dholvira is located in
 (A) Rajasthan (B) Pakistan
 (C) Gujarat (D) Punjab
63. The term 'Metabolism' as a movement in the field of architecture was coined by
 (A) Kenzo Tange (B) James Stirling
 (C) Peter Cook (D) Jane Jacobs
64. Where will you find a 'Jetty' system of construction ?
 (A) A medieval town house (B) A renaissance palace
 (C) A Roman dock (D) A Byzantine church
65. 'Marine City' – a poetic version of the metabolist movement is the creation of
 (A) Arata Isozaki (B) Toyo Ito
 (C) Kisho Kurokawa (D) Kitutake
66. Who was instrumental in laying out the city of London after the great fire in 1666 AD ?
 (A) Sir Christopher Wren (B) Paul Rudolf
 (C) Inigo Jones (D) Edwin Lutyens
67. Who designed the Piazza S. Pietro, Rome ?
 (A) Michaelangelo (B) Bramante
 (C) Bernini (D) Alberti
68. Which of the following architects is associated with the dictum 'Form Follows Climate' ?
 (A) Geoffrey Bawa (B) Laurie Baker
 (C) Charles Correa (D) Karan Grover
69. The 'Dymaxion House' prototype was designed by
 (A) Gropius and Brever (B) Mies Van der Rohe
 (C) Buck Minister Fuller (D) Charles Eames
70. The whispering gallery is found in
 (A) Gol Gumbaz, Bijapur (B) St. Philomena's Church, Mysore
 (C) Ibrahim Rauza (D) Taj Mahal, Agra

71. The planning of Indus cities are based on
 (A) Grid Iron Pattern (B) Radial Pattern
 (C) Concentric Pattern (D) Cluster Pattern
72. The Hindu temple architecture has its origin from
 (A) Chalukyan period (B) Chola period
 (C) Gupta period (D) Pallava period
73. Inigo Jones was an
 (A) Italian Gothic Architect. (B) Italian Renaissance Architect.
 (C) English Renaissance Architect. (D) English Gothic Architect.
74. The Mughal structure which looks more or less similar to Taj Mahal is
 (A) Humayun's Tomb (B) Moti Mahal
 (C) Aurangzeb's Tomb (D) Idmud-ud-Dhulla Tomb
75. Ajanta is an example of
 (A) Buddhist architecture (B) Dravidian architecture
 (C) Islamic architecture (D) Indo-Aryan architecture
76. During Dravidian style, the first phase of rock architecture started with the following forms:
 (A) Mandapas & rathas (B) Pillared halls
 (C) Column treatments (D) Temples
77. The height of the Vimana of Brihadeeswara temple at Thanjavur is
 (A) 56 M (B) 66 M
 (C) 76 M (D) 86 M
78. "Ferro Cement" was invented by
 (A) Ar. Laurie Baker. (B) Ar. P.L. Nervi
 (C) Ar. B.V. Doshi. (D) Ar. Hasan Fathey.
79. Find the odd out :
 (A) S.E.R.C., C.B.R.I., N.E.E.R.I.
 (B) COSTFORD, B.M.T.P.C., S.E.C.R.I.
 (C) S.E.R.C., C.F.R.I., BUILDING CENTRERS.
 (D) N.B.O., A.S.T.R.A., INSWAREB.
80. "Thermal Insulation" refers to
 (A) Insulation against Heat. (B) Insulation against Cold.
 (C) Insulation against Heat & Cold. (D) None of the above.
81. Forced air through an opening at high pressure is termed as
 (A) Stack effect (B) Venturi effect
 (C) High wind effect (D) None of the above

82. An equipment schedule may be prepared with aid of a
 (A) construction schedule. (B) labour schedule.
(C) material schedule. (D) all the above.
83. Which of the following buildings incorporates lighting sensors in its façade for daylight control ?
(A) CCTV Headquarters, China (B) Geity Centre, Los Angeles
(C) Arab Institute, Paris (D) Prada Store, New York
84. How many bags of cement are required for one cubic metre of concrete ?
(A) 5.2 (B) 7.5
(C) 10 (D) 6.3
85. 'TDR' in the context of development control parameters means
(A) Tall buildings development rights.
(B) Technology development research.
 (C) Transferable development rights.
(D) Town development rights.
86. Plot coverage is expressed as
(A) % of the ratio of plot area to the plinth area.
(B) % of the ratio of carpet area to the plot area.
 (C) % of the ratio of plinth area to the plot area.
(D) % of the ratio of total area of all floors to plot area.
87. The arbitrator to resolve any dispute between the client and the architect will be appointed by
(A) The court (B) Indian Institute of architects
 (C) Council of Architecture (D) Architect and Client themselves
88. Tropical upland climates are characterized by
(A) hot & sticky conditions with heavy cloud cover.
(B) hot & dry air with low humidity.
(C) alternating with long hot, dry period and shorter periods of concentrated rainfall and high humidity.
 (D) strong solar radiation, often with moderate to cool air temperature.
89. Which of the following is a non-renewable resource ?
(A) Solar Energy (B) Wind
(C) Soil (D) Natural Gas
90. A proper job layout will result in the efficient use of
 (A) Labour (B) Materials
(C) Equipments (D) Resource

91. The decay of organic building materials occur in
 (A) Composite climate (B) Hot-dry climate
 (C) Warm humid climate (D) Tropical climate
92. The transmittance value of heat absorbing glass is
 (A) 42% (B) 80%
 (C) 35% (D) 70%
93. A construction schedule indicates
 (A) The actual progress of work.
 (B) The rate of progress for each operation.
 (C) Progress for the complete work starting from conceptualising.
 (D) None of the above.
94. Galvanization is a treatment for protection against
 (A) Fire (B) Corrosion
 (C) Hardening (D) Sound
95. The height restriction for medium rise building is
 (A) 52 – 70 ft (B) 52 – 80 ft
 (C) 52 – 60 ft (D) 52 – 65 ft
96. In a group development, if the blocks are connected solidly atleast for _____ the width of anyone block on the connecting side, the structures shall be construed as a single block.
 (A) $1/3^{\text{rd}}$ (B) $1/4^{\text{th}}$
 (C) $1/2^{\text{nd}}$ (D) $3/4^{\text{th}}$
97. Plenum is a system of
 (A) Mechanical ventilation (B) Fire safety
 (C) Air conditioning (D) Insulation
98. Sashes helps in
 (A) reducing air pressure (B) directing air flow upwards
 (C) increasing air pressure (D) increasing temperature
99. The air movement between the indoor and outdoor set up by the density difference is termed as
 (A) Stack effect (B) Venturi effect
 (C) Thermal effect (D) None of the above
100. An anemograph produces
 (A) records of temperature differences
 (B) recordings of rainfall
 (C) recordings of wind velocities & directional changes.
 (D) records of pressure differences

101. The function key which is used to toggle between right, left & top isometric planes is
 (A) F₈ (B) F₃
 (C) F₂ (D) F₅
102. Maximum travel distance in a floor for fire exists for a business building typology should be
 (A) 22.5 m (B) 45.0 m
 (C) 30 m (D) 20 m
103. Min. no. of water closets required for office building as Per IS 1172-1993.
 (A) 1 for every 10 persons (B) 1 for every 25 persons
 (C) 1 for every 30 persons (D) 1 for every 50 persons
104. Image interpretation keys in remote sensing are nothing but
 (A) The collected data and materials
 (B) The analysed data and information
 (C) Reference of refresher materials
 (D) All the above
105. Water requirement for residential use will be
 (A) 150-200 lpd (B) 100-120 lpd
 (C) 200-250 lpd (D) less than 100 lpd
106. Scale command is used to
 (A) trim the object (B) measure the object
 (C) modify the size of the object (D) slices the object
107. To create solid objects, extrusion of the 2D object is done along
 (A) x axis (B) y axis
 (C) z axis (D) any axis
108. The software used in Geographical Information System is
 (A) Archview (B) Auto CAD
 (C) Auto Arch (D) 3D Studio
109. Which of the following is not a modifying command in Autocad ?
 (A) Scale (B) Hatch
 (C) Extend (D) Rotate
110. The command which helps you in creating patterns
 (A) Regen (B) Redraw
 (C) Extend (D) Array
111. "The Dry System" of carrying refuse is referred to
 (A) Conservancy system (B) Water carriage system
 (C) Soil carriage system (D) Garbage system

112. The software which cannot be used for 3D modelling is
 (A) Autocad (B) Studio Max
 (C) Flash (D) Revit
113. A common solid from two or more 3D solids can be obtained by using
 (A) Intersect command (B) Union command
 (C) Subtract command (D) Interference command
114. The file extension for a template file is
 (A) SCR (B) DWG
 (C) DXF (D) DWT
115. The Ikonos offers
 (A) Image of water bodies (B) Location of distant planets
 (C) Panchromatic image of earth (D) All the above
116. The Digital representation of a terrain surface is
 (A) SPA (B) DTM
 (C) TIN (D) None of the above
117. What is the quantity of per capita water required by the Indian town as per IS: 1172 - 1171 ?
 (A) 270 lpcd (B) 350 lpcd
 (C) 400 lpcd (D) 250 lpcd
118. Which type of pump is used to avoid water tanks in buildings ?
 (A) Centrifugal (B) Deep well
 (C) Submersible automatic pumps (D) Compressors vacuum pump
119. The comparison and graphic adjustment of features that cross adjoining map is known as
 (A) Edge matching (B) Batch processing
 (C) Easting (D) Hypsography
120. Chandigarh city is based on a
 (A) Radial pattern (B) Linear pattern
 (C) Grid iron pattern (D) Radio centric pattern
121. Which is an example of steel town ?
 (A) Chandigarh, Punjab (B) Rourkela, Orissa
 (C) Jamshedpur, Bihar (D) Gandhinagar, Gujarat
122. Which type of pump is used for highrise building ?
 (A) Reciprocating (B) Deep well
 (C) Sewerage pumps (D) Compressors vacuum pump

123. The term 'Kadki' refers to which of the following vernacular styles ?
 (A) Konkan (B) Gujarathi
 (C) Kerala (D) Kashmir
124. Which of the following Indian cities was a planned city ?
 (A) Bikaner (B) Jaipur
 (C) Udaipur (D) Jaisalmer
125. Which of the following was not a Greek city element ?
 (A) Stoa (B) Bouletrion
 (C) Forum (D) Theatron
126. The master plan or the development plan refers to
 (A) a layout design for a new town or city.
 (B) a general plan for the future lay out of the town or city.
 (C) plan showing only the existing features of town or city.
 (D) plan showing only the new development of the town or city.
127. Which of the following is not included in the cost of housing ?
 (A) Land value (B) Land development
 (C) Building materials & labour (D) Road network
128. A space enclosed in a series of cells formed by arterial roads and sub-arterial roads is
 (A) Traffic islands (B) Cross over
 (C) Precinct (D) Camber
129. The weight of water vapour per unit volume, as grams of water per litre of air is termed as
 (A) Humidity (B) Absolute humidity
 (C) Percentage humidity (D) Relative humidity
130. By-pass roads are also known as
 (A) Through roads (B) Loop roads
 (C) Approach road (D) Expressways
131. The method of growth in which the town implies dependency on the parent city but still possessing its own identity is
 (A) Natural growth (B) Scattered growth
 (C) Ribbon development (D) Satellite growth
132. Le Corbusier proposed a system of roads for Chandigarh city which was called the
 (A) 7 V's (B) 5 V's
 (C) 8 V's (D) 6 V's

133. Waiting interval is defined as
 (A) ratio between round trip time and no. of lifts
 (B) ratio between no. of floors and no. of lifts
 (C) ratio between speed of lift and stopping periods
 (D) ratio between handling capacity and no. of lifts
134. The architect who contributed a lot to rural housing and author the book 'Architecture For The Poor' is
 (A) Laurie Baker (B) Hassan Fathy
 (C) Charles Correa (D) Nari Gandhi
135. Which of the following is a private sector catering the house finance system ?
 (A) HUDCO (B) LIC
 (C) HFCL (D) HDFC
136. Who is not a town planner in the following list ?
 (A) Sir Pattrik Geddes (B) Doxiadis
 (C) Alvar Alto (D) Sir Edwin Lutyens
137. What is the range of reach for a physically challenged person on wheel chair ?
 (A) Up to 900 mm (B) Up to 630 mm
 (C) Up to 450 mm (D) Up to 800 mm
138. Identify the areas developed under site and services scheme :
 (A) Arumbakkam and Villivakkam
 (B) Pattinapakkam and Arumbakkam
 (C) Meenambakkam and Arumbakkam
 (D) Villivakkam and Madipakkam
139. Master plan of New Delhi was prepared by
 (A) Le Corbusier (B) Lutyens
 (C) Tony Garnier (D) F.L. Wright
140. Birkinhead Park was designed by
 (A) Andre le North (B) William Kent
 (C) Joseph Praxton (D) None of the above
141. A form of symbiosis in which both organisms help each other is called as
 (A) Parasitism (B) Mutualism
 (C) Commensalism (D) Competition
142. Biologically productive land and water areas a given population occupies to produce all the resources it consumes and absorbs the wastes, using prevailing technology is called
 (A) Biological impact zone (B) Ecological footprint
 (C) Environmental impact zone (D) Natural water shed

143. What is meant by co-recyclable ?
(A) Product can be used over and over again
(B) Product is easy to recycle
(C) Compatible materials can be recycled together to form a new useful material
(D) Products for which there will be no secondary use
144. Who is considered to be the Father of U.S. Landscape architecture ?
(A) Frederick Law Olmsled (B) William Kent
(C) Joseph Praxton (D) Andre Le North
145. EIA is the abbreviation of
(A) Environmental Impact Assignment
(B) Energy Impact Assessment
(C) Ecosystems Impact Assessment
(D) Environmental Intact Assessment
146. The art of cutting and trimming plants into ornamental shapes is known as
(A) layering (B) topiary
(C) pruning (D) shrubbery
147. Master plan for Parc de Vilette in Paris was developed by
(A) Baron Hausmann (B) Daniel Hudson Burnham
(C) Bernard Tschumi (D) Michael Laurie
148. Two variables that determine the rate of slope between two points in a sloping site are
(A) the horizontal distance between two points and the vertical change in elevation.
(B) the vertical change in elevation and the mean sea level.
(C) the horizontal distance between two points and a bench mark.
(D) none of the above.
149. The botanical name for lotus is
(A) Nelumbo nucifera (B) Saraca indica
(C) Anthocephalus indicus (D) Gloriosa superba
150. The botanical name for teak is
(A) Polyalthia longi folia (B) Tectona grandis
(C) Clitoria Ternatea (D) Syzygium cumini
151. The relationship between light & plants
(A) Directly affects the transpiration rate
(B) Indirectly affects the transpiration rate
(C) Both directly and indirectly affects the transpiration rate
(D) None of the above

152. 'Xerocolles' means
 (A) Desert animal
 (B) Desert plant
 (C) Hydrocoles
 (D) Xerophyte
153. Shrubs belong to
 (A) Hardscapes
 (B) Softscapes
 (C) Patios
 (D) Waterscapes
154. Which one of the following place is adorned with Mughal garden ?
 (A) Parliament Building at New Delhi
 (B) Rashtrapati Bhawan at New Delhi
 (C) Prime Minister House at New Delhi
 (D) Red Fort at New Delhi
155. The Botanical name of cherry is
 (A) Prunus padus
 (B) Ulmus americana
 (C) Prunus amygdalus
 (D) Castanea mollissima
156. "Indian Green Business Centre" is located in India at
 (A) Chennai
 (B) New Delhi
 (C) Bangalore
 (D) Hyderabad
157. Mezzo Climate is
 (A) Climate at site scale
 (B) Climate at regional scale
 (C) Climate at Land-planning scale
 (D) Climate at world scale
158. Multi storeyed buildings are classified as
 (A) Building with 5 floors & above
 (B) Building exceeding four floors or 15 metres in height
 (C) Building above 20 metres in height
 (D) Building above 20 metres in height with 5 floors & above
159. Apple belongs to
 (A) Malus species
 (B) Fraxinus species
 (C) Abies species
 (D) Fagus species
160. The garden which features rock and stone arrangement, stepping stones and water, real or symbolic as elements is the
 (A) Japanese garden
 (B) Persian garden
 (C) Mughal garden
 (D) Italian garden
161. Which of the following is not a Mughal garden ?
 (A) Charbagh
 (B) Rambagh
 (C) Lalbagh
 (D) Shalimar Garden

162. Which of the following principle suits the buildings in hot arid zone ?
 (A) Close compact forms
 ✓(B) Cubical or slightly elongated forms towards east-west axis
 (C) Elongated forms towards north-south axis
 (D) Scattered and loose forms
163. Bahareque system is a method of
 ✓(A) Traditional bamboo wall system (B) Brick wall system
 (C) Plastering low cost housing (D) None of the above
164. A tender is called for immediately after
 (A) the preparation of estimates.
 (B) getting the technical sanction.
 ✓(C) getting the administrative approval.
 (D) starting a work.
165. A combined footing that covers the entire area beneath a structure and supports all the walls and columns is called
 ✓(A) Raft foundation (B) Caissons
 (C) Deep strip footings (D) Pier foundation
166. Which famous German architect experimented with bubbles and soap film to develop precise mathematical studies to determine the forms of tensile structures ?
 (A) Marcel Bruer ✓(B) Frei Otto
 (C) Walter Gropius (D) Peter Cook
167. Critical path in network diagram refers to
 (A) the path along the network which requires shortest time from start to completion
 ✓(B) the path along the network which requires longest time from start to completion
 (C) the path along the network which requires the optimum time from start to completion
 (D) the time required to complete the critical event
168. The important difference between the Gantt chart and Milestone chart in project management is
 (A) Gantt chart does not show the inter relationship between various activities.
 (B) It is difficult to optimize the use of resources in Gantt chart.
 ✓(C) Mile stone chart shows the important events to be completed.
 (D) All the above.
169. A specific definable accomplishment in a work plan is known as
 (A) Network (B) Activity
 (C) Milestone ✓(D) Event

170. Which of the following is not a rural construction technique ?
 (A) Wattle and Daub construction (B) Bamboo construction
 (C) Hollow Block construction (D) Rammed Earth construction
171. The expected time (t_E) of an activity is the weighted average of its three time estimates t_o , t_m , t_p and is given by
 (A) $t_E = \frac{t_o + 4t_m + t_p}{6}$ (B) $t_E = \frac{t_o + 6t_m + t_p}{6}$
 (C) $t_E = \frac{4t_o + t_m + t_p}{6}$ (D) $t_E = \frac{t_o + t_m + 4t_p}{6}$
172. Air supported structures are
 (A) Solid structures (B) Skeleton structures
 (C) Surface structures (D) None of the above
173. The lower edge of the inclined roof surface which overhangs the walls are
 (A) Hanger (B) Gable
 (C) Gable end (D) Eaves
174. When the lowest rates quoted the same figure which is the lowest, the tender accepting authority
 (A) Recall tenders
 (B) Can accept the tender of the reputed contractor
 (C) Can resort to negotiation in selecting a tender
 (D) By lot system
175. The probability that the activity will be completed in the expected time, depends upon the dispersion of the distribution curve, which is measured by
 (A) Mean (B) Variance
 (C) Standard Deviation (D) Probability Density Function
176. The workability of concrete is measured by
 (A) Slump test (B) Compacting factor test
 (C) Vee-Bee-consistometer method (D) All the above
177. Surkhi is
 (A) Rice husk ash (B) Calcined clay
 (C) Fly ash (D) Volcanic ash
178. _____ are keypoints or events in time, which can be identified when completed as the project progresses.
 (A) Slack (B) Mile stones
 (C) Float (D) None of the above
179. The earliest occurrence time for the event from which the activity originates is
 (A) Earliest start time (B) Latest start time
 (C) Earliest finish time (D) Latest finish time

180. Of the following, which is not a type of float ?
 (A) Free float
 (B) Total float
 (C) Independent float
 (D) Critical float
181. "Xeriscaping" means
 (A) Concept of water efficient landscape design
 (B) Japanese style of landscape design
 (C) Traditional style of architecture
 (D) Contemporary landscape design
182. The basic elements of Urban Biology was proposed by
 (A) CIAM
 (B) MARS
 (C) Tony Garnier
 (D) None of the above
183. 'Image of the city' is written by
 (A) Kevin Lynch
 (B) Gordon Cullen
 (C) Jane Jacobs
 (D) None of the above
184. Who wrote the book 'Diagram Diaries' ?
 (A) Peter Eissenman
 (B) Stan Allen
 (C) Lisa Anne Couture
 (D) Charles Jencks
185. Who wrote the book 'Event Cities' ?
 (A) Bernard Tschumi
 (B) Richard Rogers
 (C) Michael Sorkin
 (D) Robert Venturi
186. Which of these urban planning concepts were not put forth by Le Corbusier ?
 (A) Villa Contemporaine
 (B) Ville Radieuse
 (C) Plan Voisin
 (D) Parc De La Villette
187. The 'Cite Industrielle' was conceptualized by
 (A) Tony Garnier
 (B) C. A. Perry
 (C) Le Corbusier
 (D) Bernard Tschumi
188. "ECBC" refers to
 (A) England Council for Building Construction
 (B) Environmental Code for Building Construction
 (C) Energy Conservation Building Code
 (D) Environmental Council for Building Construction
189. The author of 'The Depth & Life of Great American Cities' is
 (A) Ruskin
 (B) Jane Jacobs
 (C) Gordon Cullen
 (D) Peter Shirley
190. The element which crystallizes the situation, which confirms, 'this is the spot', 'stop looking it is here' is
 (A) Pinpointing
 (B) Thisness
 (C) Immediacy
 (D) Focal point

191. Occupied territory, advantage, enclosure, focal point, indoor landscape are all forms of
 (A) Anticipation (B) Categories
 (C) Possession (D) None of the above
192. Leed refers to
 (A) Leadership in Energy and Environmental Development
 (B) Leadership in Energy and Environmental Design
 (C) Leadership in Environment and Energy Development
 (D) None of the above
193. Who wrote the famous book 'Design of Cities' ?
 (A) Kevin Lynch (B) Paul de Speriregan
 (C) Gorden Cullen (D) Richard Neutra
194. 'Radiant City' concept was by
 (A) Louis Kahn (B) Le Corbusier
 (C) F.L. Wright (D) Alvar Alto
195. Which of the following is not a planned city ?
 (A) Gandhinagar (B) Ahmedabad
 (C) Chandigargh (D) New Delhi
196. The intervention which aims at keeping the object in its existing state is known as
 (A) Restoration (B) Consolidation
 (C) Preservation (D) Rehabilitation
197. 'Intach' is
 (A) Indian National Trust for Art & Cultural Heritage
 (B) International Association for Cultural Heritage
 (C) International Art & Cultural Heritage
 (D) None of the above
198. Aihole is an example of the architecture of
 (A) Cholas (B) Chalukyas
 (C) Guptas (D) Chandellas
199. Brahadeeswara Temple was built by
 (A) Cholas (B) Pallavas
 (C) Pandyas (D) Hoysala Kings
200. Bhog Mandir of Lingaraja temple represents
 (A) Dancing Hall (B) Hall of Offering
 (C) Mandapa (D) Vimana