

Sl. No. :

AAR/18

Register
Number

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2018
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. The applicant will be supplied with Question Booklet 15 minutes before commencement of the examination.
2. This Question Booklet contains 200 questions. Prior to attempting to answer, the candidates are requested to check whether all the questions are there in series and ensure there are no blank pages in the question booklet. **In case any defect in the Question Paper is noticed, it shall be reported to the Invigilator within first 10 minutes and get it replaced with a complete Question Booklet. If any defect is noticed in the Question Booklet after the commencement of examination, it will not be replaced.**
3. Answer all questions. All questions carry equal marks.
4. 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.
5. An answer sheet will be supplied to you, separately by the Room Invigilator to mark the answers.
6. You will also encode your Question Booklet Number 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, action will be taken as per Commission's notification.
7. 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.
8. In the Answer Sheet there are **four** circles (A), (B), (C) and (D) against each question. To answer the questions you are to mark with Blue or Black ink Ball point pen **ONLY ONE** circle 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)
9. 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 time of 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.
10. **Do not make any marking in the question booklet except in the sheet before the last page of the question booklet, which can be used for rough work. This should be strictly adhered.**
11. Applicants have to write and shade the total number of answer fields left blank on the boxes provided at side 2 of OMR Answer Sheet. An extra time of 5 minutes will be given to specify the number of answer fields left blank.
12. 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.

SPACE FOR ROUGH WORK

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1. CAD refers to
 (A) Computer Aided Design (B) Computer Automated Design
(C) Computer Animated Design (D) Computer Aided Drawing
2. Vaults are _____ structures of arched cross section.
(A) 2D Compression (B) 3D Compression
(C) 2D tensile (D) 3D tensile
3. The state or quality of lacking variety is
 (A) monotony (B) emphasis
(C) regular (D) collage
4. A relatively light value of a colour produced by adding white to it is known as
(A) hue (B) tint
(C) shade (D) dextros
5. An arch having one impost higher than the other
 (A) rampant arch (B) bell arch
(C) segmental arch (D) drop arch
6. Taj Mahal, Agra, India is an example for _____ organization.
 (A) centralized (B) linear
(C) confused (D) grid
7. The science of human beings, study of the origins, physical and cultural development is called
(A) sociology (B) biology
 (C) anthropology (D) archeology

8. A strong door sliding vertically with heavy wooden frames having pointed iron bars at the bottom is called
- (A) Portcullis (B) Mullion
(C) Lanceto (D) Porte cochere
9. Roman Masonry, where the surface displays irregularly placed stones of different sizes is called
- (A) Opus incertum (B) Opus isodomum
(C) Opus reticulatum (D) Opus signinum
10. Colour that appears to move away from the observer is called
- (A) moving colours (B) backward colours
(C) warm colours (D) receding colours
11. A reproduction of an original is called
- (A) prototype (B) archetype
 (C) ectype (D) model
12. A warm colour that appears to move towards observer is called
- (A) moving colour (B) advancing colour
(C) primary colour (D) frontal colours
13. The roof of the palace of Persepolis was made of
- (A) timber (B) mud brick
(C) stone (D) glazed tiles
14. The most splendid tholos at Mycenae is the
- (A) treasury of atreus (B) palace of tiryns
(C) treasury of minyas (D) palace of mycenae

15. The building stone abundantly available in Northern/Lower Egypt is
(A) Sandstone (B) Limestone
(C) Granite (D) Marble
16. _____ was used as a material to water-proof drains in ancient Mesopotamia.
(A) coal (B) metal
(C) timber (D) bitumen
17. Mythical monster statues with the body of a lion and the head of a man that lined up the approach of Egyptian temples are
(A) Mastabas (B) Obelisks
(C) Sphinxes (D) Hieroglyphs
18. The height of the Buland Darwaza or the Gate of magnificence built by Akbar is _____ approximately.
(A) 108' 0" (B) 210' 0"
(C) 136' 0" (D) 176' 0"
19. The great Pyramid of cheops was originally cased in finely dressed _____ blocks.
(A) slate (B) marble
(C) sandstone (D) limestone
20. The tomb of Itmad-ud-Daulah in Agra was built by
(A) Jehangir (B) Nur Mahall
(C) Akbar (D) Shah Jehan
21. Which variety of marble was used in the Taj Mahal at Agra?
(A) Makrana marble (B) Pink marble
(C) Pista marble (D) Green marble

22. The construction of the Humayun's tomb was undertaken by
(A) Babur (B) Haji Begum
(C) Akbar (D) Sher Shah Sur
23. The _____ was a triumphal arch built during the Qutb Shahi period in Hyderabad.
 (A) Charminar (B) Tin Darwaza
(C) Buland Darwaza (D) Dakhil Darwaza
24. The projecting cornice supported on closely ranked brackets at the lintel or roof level in the Islamic style is called the
(A) Chadar (B) Chajja
(C) Guldasta (D) Chini khana
25. The Sun temple at Konark was built mainly of
 (A) laterite (B) sandstone
(C) granite (D) limestone
26. A recess or alcove on the wall of the sanctuary indicating the direction of prayer towards Mecca is called the
(A) Maqbara (B) Mimbar
 (C) Mihrab (D) Maqsura
27. Decoration with fanciful interwining of ornamental elements called _____ and decorative inscriptions adorned the Alai Darwaza in Delhi
(A) Kanjuras (B) Pinnacle
 (C) Arabesque (D) Abacus
28. Which one of the following is an example of last of megalithic architecture?
(A) Rome (B) Egypt
 (C) Greece (D) Romanisque

29. PIC is abbreviated as
- (A) Polymer Impregnated Concrete
 - (B) Polymer Induced Cement
 - (C) Partially Induced Cement
 - (D) Partially Impregnated Concrete
30. Base plate in steel roof trusses are also called as
- (A) Gusset plate
 - (B) Sliding plate
 - (C) Bearing plate
 - (D) Shear plate
31. T sections are best suited for use as principal rafters, whereas angles or channel sections are used as
- (A) Angle cleat
 - (B) Struts
 - (C) Purlins
 - (D) Gutter
32. Concrete is
- (A) weak in tension
 - (B) weak in compression
 - (C) strong in compression and tension
 - (D) strong in tension
33. SERC stands for
- (A) Structural Engineer Research Centre
 - (B) Science and Engineering Research Council
 - (C) Science and Engineer Research Centre
 - (D) Structural Engineering Research Council
34. Which of the following property is a major requirement for thermal insulation in materials?
- (A) high specific gravity
 - (B) low thermal conductivity
 - (C) high specific heat
 - (D) low degree of heat resistance

35. The operation of placing concrete in each lift is continued but the rate of vertical progress is not to exceed about
- (A) 1m (B) 2m
(C) 3m (D) 4m
36. Identify the steel door-made from small rolled steel channel sections and strips and are fitted with rollers at the top or bottom
- (A) Rolling shutters (B) Sliding doors
 (C) Collapsible gates (D) Revolving doors
37. In ordinary type of concrete flooring, the topping is replaced by only a thin coat of cement mortar _____ mix.
- (A) 1 : 1 (B) 1 : 2
(C) 1 : 3 (D) 1 : 2 : 5
38. Which one of the following concrete has the disadvantage of entrainment of air
- (A) Light weight concrete
(B) High sulphate concrete
(C) Ready mix concrete
 (D) Fibre reinforced concrete
39. Use of thermal insulating materials inside a room results in the prevention of _____ on interior walls and ceilings
- (A) Condensation (B) Absorption
(C) Humidification (D) Crystallization
40. The property of thermal transmittance of building material is denoted by
- (A) ' σ ' (B) ' μ '
(C) ' ϕ ' (D) ' U '

41. Cast irons are generally classified into three main varieties namely
- (A) Blue cast iron, black cast iron and grey cast iron
 - (B) Black, grey and malleable cast iron
 - (C) White, grey and malleable cast iron
 - (D) Grey, blue and malleable cast iron
42. Why are cables installed within fixed conduit?
- (A) Conduit is a permanent fixture of the building while cables require replacement when aged
 - (B) Conduit becomes earth continuity conductor
 - (C) Reduce heat emission from cables
 - (D) Protects PVC cables from heat gain from environment
43. How are waste pipe system syphonage risks reduced?
- (A) Adequate ventilation to open air
 - (B) Installing larger diameter waste pipes than normally recommended
 - (C) Connecting every waste trap individually to the vertical stock
 - (D) Maintaining air-tightness of the drainage system
44. What does a chilled beam mean?
- (A) Refrigerated pipe within a room
 - (B) Chilled water pipes along side structural floor beams
 - (C) Exposed steel beam at high level in a room having chilled-water pipes attached
 - (D) Natural convector chilled water finned pipe

45. The size of main ring, dry riser or wet riser for fire-fighting for a building, is designed keeping in mind, that a distant hydrant will discharge about _____ litres of water per minute at 3.5 kg/sq.cm and at any given time.
- (A) 200 litres (B) 500 litres
(C) 800 litres (D) 1000 litres
46. Which of the following is not a type of sprinkler
- (A) Wet pipe (B) Dry pipe
(C) Stand-pipe (D) Deluge
47. Which one of the following detector sense the product of combustion during the incipient stage of fire.
- (A) Automatic Fire detection
(B) Heat detector
(C) Smoke detector
(D) Ionization detector
48. The apparatus which is mounted in the return-air-passage of the unit which controls the operation of the compressor according to the return-air-temperature, indicating the room temperature is
- (A) Thermostat (B) Compressor
(C) Fan-propeller (D) Supply-air-Grill
49. The most practicable arrangement that can be used when a large number of smaller zones are required within the air conditioned space (For example guest rooms and public areas in a hotel) is
- (A) Chilled water system
(B) Packaged air conditioning system
(C) Room-air conditioning system
(D) DX system of air conditioning

50. The standard value of Air-changes required for a Bedroom of a residence per hour is
- (A) Twenty Seven air-changes per hour
 - (B) One air-change per hour
 - (C) Six air-changes per hour
 - (D) Two air-changes per hour
51. In Traditional planning text the term Sala means
- (A) Fish with one eye
 - (B) Long structure of one span only
 - (C) Short structure of one span only
 - (D) Long structure with two span only
52. A village in ancient text resembling flower type is called
- (A) Sarvatobhadra
 - (B) Nagabhadra
 - (C) Dronabhadra
 - (D) PADMAKA
53. The study of science of habitation is called
- (A) Vastu Kala
 - (B) Vastu Mega
 - (C) Vastu Vidya
 - (D) Vastu padma
54. The Earth fort is also known as
- (A) Vana durga
 - (B) Apa durga
 - (C) Mahi durga
 - (D) Bhoomi durga

55. The person related to concentric Zone concept is
- (A) Burgess (B) Whitman
(C) Guttenberg (D) Homer
56. Extensive green roof has thickness of
- (A) 6 to 8 inches
(B) 9 to 16 inches
 (C) 2 to 3 inches
(D) less than an inch
57. To change the land use of a tract or parcel of land from a greater to less intense usage is
- (A) Down zone
(B) Reduce zone
(C) Limited zone
(D) Gentrified zone
58. The regulation of building or site design to achieve a desirable appearance is called
- (A) Aesthetic zoning
(B) Functional zoning
(C) Gentrification
(D) Deluded zoning
59. _____ square contains self contained space of the closed square, shaped by the continuity of the surrounding building
- (A) Amorphous (B) Nuclear
(C) Grouped (D) Dominated

60. "Dyanapolis" is the term defined/ coined by
 (A) C.A. Perry (B) Dyagno salvus
 (C) Gorden Cullen (D) Doxiadis. C.A
61. A seating height wall of stepped edge to a side walk is
 (A) The edge (B) The seating edge
 (C) The seat furniture (D) The edge furniture
62. A constellation of cities around a main center is called
 (A) Constellation (B) Networks
 (C) Satellite (D) Articulated
63. Gandhi Nagar plan was based on the
 (A) Concentric plan system (B) Linear plan system
 (C) Organic plan system (D) Gird plan system
64. The capital complex consists of the secretariat, _____ and Legislative assembly.
 (A) High court (B) Civic center
 (C) Shopping center (D) Office complex
65. During British Rule, to protect the monumental building the "Madras Regulation (VII)" was passed in
 (A) 1810 (B) 1817
 (C) 1857 (D) 1902
66. The three key concepts understood in determining a property worthy of listing are Historic significance, Historic Integrity and
 (A) Historic context (B) Geography of place
 (C) Cultural ambiguity (D) Historic population

67. Risers for outdoor stairs should be minimum _____ mm.
- (A) 100 (B) 112
(C) 115 (D) 150
68. The climate at the regional scale is called as _____ climate.
- (A) macro (B) meso
(C) micro (D) topo
69. The space enclosed by raised landform, that can be viewed is called as
- (A) enclosure (B) landshed
(C) valley (D) viewshed
70. The performance of shading devices is specified by two angles
- (A) Azimuth angle and attitude angle
(B) Horizontal angle and vertical angle
 (C) Horizontal shadow angle and vertical shadow angle
(D) Wall angle and roof angle
71. _____ is often called waste-to-energy.
- (A) Energy recovery (B) Biological reprocessing
 (C) Pyrolysis (D) Fermentation
72. The chemical processes by which a gaseous fuel is produced from a solid fuel is called as
- (A) Gasification (B) Incineration
(C) Pyrolysis (D) Biological reprocessing
73. The steep surface on undisturbed ground at upper edge of land slide is called as
- (A) Flank (B) Flange
 (C) Main scarp (D) Rupture

74. Match the settlement pattern and the cities.

Settlement pattern	Cities
(a) Linear	1. Mount Abu
(b) Radial	2. Delhi
(c) Sector	3. Mumbai
(d) Multiple Nuclei	4. Chandigarh
	5. Gandhinagar

	(a)	(b)	(c)	(d)
(A)	5	3	4	1
(B)	2	1	3	5
(C)	3	5	4	3
<input checked="" type="checkbox"/> (D)	3	1	5	2

75. The dispersed rural settlements cannot be seen in one of the following environment. Identify it.

(A) Alluvial plains of Ganger

(B) Valleys of Himalayas

(C) Forests and hills in Meghalaya

(D) Arid and semi arid regions of Rajathan

76. Which of the following is not a criteria for grading structural Bamboo?
- (A) Diameter and length of culm (B) Inter nodal length
 (C) Durability and seasoning (D) Age of the Bamboo
77. A total of 18,000 people are to be accommodated in a plotted housing scheme. For this, a proportion of 2:3:5 is kept between HIG, MIG and LIG plots respectively. Number of HIG plots in the housing scheme, considering 5 persons per dwelling unit and 3 dwelling units per plot will be
- (A) 1200 (B) 120
 (C) 240 (D) 600
78. Identify the incorrect design factor, which should not be considered for residential layout planning
- (A) Plan for extension of major streets (B) Avoid planning dead-end streets
 (C) Make plot lines angular to street (D) Provide sites for social services
79. In stone Masonry, decorative rebates or sinkings around the edges of individual stones to emphasize joints is called
- (A) Hornetification (B) Furnigyraton
 (C) Rustication (D) Bossagation
80. The science surrounding the investigation of soils by the collection and testing of samples to provide foundation design is
- (A) Soil tectonics (B) Soil mechanics
 (C) Soil science (D) Soil conditioning
81. The process in which culms are cut at the bottom, but left for sometime with branches and leaves on the clump is called
- (A) Thermal curing (B) CULM curing
 (C) Clumpress (D) Transpiro curing

82. The minimum norms for provision of Public Toilet on roads and for open areas as per URDPFI guidelines is
- (A) @ every 500 m (B) @ every 1 km
 (C) @ every 1.5 km (D) @ every 2 km
83. For buildings in hilly areas, as per URDPFI guidelines, the minimum width of apron around the building should be
- (A) 0.25 m (B) 0.50 m
 (C) 0.75 m (D) 1.0 m
84. The minimum width for cycle track for distributory roads as per URDPFI guidelines is
- (A) 1 m (B) 1.5 m
 (C) 2.0 m (D) 2.5 m
85. The potential towns for investment and development identified on the basis of their inter-aerial relationship with the regional nodal centre are called
- (A) Satellite towns (B) Priority towns
 (C) Growth centres (D) Peri-urban areas
86. According to the classification of urban settlements adopted for URDPFI, the population for a metro politan city I is
- (A) 1 lakh to 5 lakh (B) 5 lakh to 10 lakh
 (C) 10 lakh to 50 lakh (D) 50 lakh to 1 crore
87. Connection of the exposed conductive parts of an installation to the main earthing terminal of that installation is _____ as per NBC, India.
- (A) Earth fault (B) Earthing lead
 (C) Earthing (D) Earth leakage current

88. The smallest planning unit is conceived as housing area for _____ population with convenient infrastructure provision as per URDPFI guidelines.
- (A) 2000 (B) 4000
 (C) 5000 (D) 10000
89. Maximum plot coverage permissible for CMA ordinary commercial buildings and other small developments within Chennai city is
- (A) 60% (B) 65%
 (C) 70% (D) 75%
90. The permissible limiting concentration in mg/l of BOD of effluent standards from a hotel with atleast 20 bedrooms is _____ for Inland surface water.
- (A) 10 (B) 20
 (C) 30 (D) 40
91. Every Bathroom or water-closet shall have a window or ventilator or open space of area not less than _____ with side not less than 0.3 m.
- (A) 0.1 m² (B) 0.3 m²
(C) 0.5 m² (D) 0.7 m²
92. The water body should be protected by ensuring that no permanent/temporary construction/development takes place around it upto distance of _____ from the edge of the water body.
- (A) 20 m (B) 30 m
 (C) 40 m (D) 50 m
93. The area of a kitchen where separate dining area is provided shall not be less than _____ with a minimum width of 1.8 m as per NBC
- (A) 3 m² (B) 4 m²
 (C) 5 m² (D) 6 m²

94. You apply a property called thickness to a standard AutoCAD circle. What type of AutoCAD object do you now have officially?
- (A) Pline (B) Solid model (3D solid)
 (C) Surface model (polygon mesh) (D) Cylinder
95. The amendment to the copyright act of India, for the "Work of Architecture" had been done in the year
- (A) 1974 (B) 1984
 (C) 1994 (D) 2004
96. Which of the following is not the objective of the WTO?
- (A) To improve the standard of living of people of the member countries
(B) To enlarge production and trade of goods
(C) To protect environment
 (D) To improve the balance of payment situation of the member countries
97. By 'spatial data' we mean data that has
- (A) Complex values (B) Positional values
(C) Graphic values (D) Decimal values
98. As per National Building Code of India – 2005, Public walks for physically challenged shall have a maximum gradient
- (A) 1 in 10 (B) 1 in 15
 (C) 1 in 20 (D) 1 in 25
99. _____ features is used to change the corners of a model as rounded edge.
- (A) Chanfer (B) Fillet
(C) Trim (D) Draft

100. A public square or open space in a city or town is called
- (A) Plaza
 - (B) Podium
 - (C) Palazzo
 - (D) Pailou
101. French term for a narrow passage between houses is called
- (A) Aedicule
 - (B) Broise Solleria
 - (C) Allee
 - (D) Droxtia
102. A line, plane or volume that, by its continuity and regularity serves to gather and organize patterns of form is
- (A) Axis
 - (B) Promaneda
 - (C) Datum
 - (D) Convergence
103. _____ flows build energies and a sense of coming together
- (A) Dentric
 - (B) Coalescing
 - (C) Cohesing
 - (D) Rhythmic
104. The boundaries of social space varies from
- (A) 20 to 30 feet
 - (B) 30 to 40 feet
 - (C) 4 to 12 feet
 - (D) 16 to 30 feet
105. Geodesic dome was invented by
- (A) R. Buckminster Fuller
 - (B) R. Ghery
 - (C) Renne Thibault
 - (D) Fukoyohma

106. Unite d'Habitation Marseilles designed by Le Corbusier is an example for _____ organization.
- (A) linear (B) cluster
(C) radial (D) uneven
107. A solid generated by the revolution of a rectangle about one of its sides is called
- (A) sphere (B) cube
(C) cylinder (D) cone
108. The physical dimension of length, width and depth of a form is called
- (A) texture (B) colour
(C) shape (D) size
109. Which colour has maximum wavelength?
- (A) orange (B) red
(C) indigo (D) green
110. Overlapping rows of shaped tiles or shingles that resemble overlapping fish scales is called
- (A) imprication (B) imbrication
(C) involution (D) illicitation
111. A colonette is a membered pier that appears to support a rib in a vault is called
- (A) vaulting shaft (B) pendentine
(C) pendentive (D) tube vault
112. A circular arch in which the intrados is less than a semicircle is termed as _____ arch.
- (A) Scissor (B) Roman
(C) Rampant (D) Segmental

113. The invention of the Corinthian capital is dedicated to a bronze sculptor by name
(A) Athena (B) Callimachus
(C) Zeus (D) Apollo
114. The exercise yards on either ends in the thermae of Caracalla, Rome was called the
(A) Palaestrae (B) Natatio
(C) Caldarium (D) Stadium
115. An example for a French Gothic church is
(A) St. Vitale, Ravenna (B) The Pantheon, Paris
(C) Notre Dame, Paris (D) Les Invalides, Paris
116. The 'kneeling window" of the Medici Palace, Florence was designed by
(A) Andrea Palladio (B) Bramante
(C) Alberti (D) Michel Angelo
117. The towering structure over the sanctuary of a Hindu temple is called the
(A) Artha Mandapa
(B) Maha-Mandapa
(C) Sikhara
(D) Garba Griha
118. Towering pylons forming the entrance gateways to South Indian temples are the
(A) Vimana (B) Gopuram
(C) Sikhara (D) Devl
119. The average angle of slope from the vertical made by the gopuram is
(A) 25° (B) 60°
(C) 30° (D) 45°

120. One of the reference books for Indo Saracemic architects for facade details was "Jeypore portfolio of Architectural details", 1890 by
- (A) Robert Chisholm
(C) Paul Benfield
- (B) Sir Swinton Jacob
(D) Major Charles Mant
121. Identify the Indo Saracemic building from the given list designed by Vincent Esch in Hyderabad.
- (A) Osmania general hospital
(C) Muir college
- (B) Lakshmi vilas palace
(D) Zanana hospital
122. The Queen's way, one of the principal axis in the design of New Delhi by Lutyens is now popularly known as
- (A) Central avenue
(C) Lok path
- (B) Jan path
(D) Raj path
123. The Connaught Place in New Delhi was designed by _____ in the classical style.
- (A) William Emerson
(C) Richards E.P.
- (B) W.H. Nichols
(D) Lanchester
124. Kahn's experiment with building materials in the I.I.M., Ahmedabad was with the use of
- (A) brick
(C) concrete
- (B) stone
(D) timber
125. Who designed the Jawahar Kala Kendra of Jaipur based on a 9-square mandala?
- (A) Charles Correa
(C) Anant Raji
- (B) B.V. Doshi
(D) Kulbushan Jain
126. In the Jami Masjid of _____ the 3 main domes are surrounded by cylindrical cupolas placed on each bay of the interior.
- (A) Ahmedabad
(C) Bijapur
- (B) Mandu
(D) Champaner

127. Cork board as an insulation material is obtained from

- (A) Pine tree
(B) Oak tree
(C) Willow tree
(D) Maple tree

128. Glass fibres are useful because of their height ratio of _____ to _____.

- (A) surface area to weight
(B) weight to surface area
(C) volume to weight
(D) weight to volume

129. Cellulose as a insulation material comes under

- (A) class I fire-safety rating
(B) class II fire-safety rating
(C) class III fire-safety rating
(D) class IV fire-safety rating

130. A slump of 80 to 150 mm can be used for

- (A) concrete for road construction
(B) concrete for canal linings
(C) normal R.C.C. work
(D) mass concrete

131. Slump test is the most commonly used method of measuring

- (A) consistency
(B) compressive strength
(C) impact value
(D) tensile strength

132. Stainless steel contains

- (A) 18% chromium and 8% of nickel
(B) 8% chromium and 18% of nickel
(C) 20% chromium and 40% of nickel
(D) 40% chromium and 20% of nickel

133. The process of keeping the concrete under moisture is termed as
(A) Hydration (B) Curing
(C) Creep (D) Shrinkage
134. The cement and concrete products have
(A) Higher insulation value
(B) Lower insulation value
(C) Higher Heat resistance
(D) Lower Thermal transmittance
135. _____ is the most common insulation materials in modern times
(A) Fiber glass (B) Cork
(C) Sheep wool (D) Recycled Denim
136. Insulation which is fitted between stud, joists and Beams
(A) Blanket: Batts and Rolls
(B) Concrete Block Insulation
(C) Foam board
(D) Loose Fill insulation
137. _____ may be poured in between the vertical studs after the outside sheathing is placed
(A) Blanket Insulation
(B) Bat Insulation
(C) Fill Insulation
(D) Structural Insulating Boards
138. When concrete is discharged from long chutes into the column box, it result in
(A) Bleeding (B) Laitance
(C) Honey combing (D) Creep

139. The fusing of surface sand, during the sand casting of metals is called
- (A) Honey combing
 - (B) Scabbing
 - (C) Swelling
 - (D) Drawing
140. Gypsum board as insulating material is closely associated with
- (A) Reflecting sheet material
 - (B) Loose fill insulation
 - (C) Blanket insulation
 - (D) Block insulation
141. During the process of puddling, the impurities of pig-iron are _____ during the manufacturing of wrought iron
- (A) Distilled
 - (B) Condensed
 - (C) Oxidized
 - (D) Settled as residues
142. The conversion of pig-iron into wrought-iron by stirring in a molten state is known as
- (A) Slag
 - (B) Shingling
 - (C) Ramming
 - (D) Puddling
143. The defect in red-short wrought iron occurs when _____ is present in excess quantity.
- (A) Sulphur
 - (B) Copper
 - (C) Phosphorus
 - (D) Magnesium
144. Pig iron is remelted with _____ and _____ in furnace to form cast iron
- (A) Bauxite and limestone
 - (B) Coke and lignite
 - (C) Limestone and coke
 - (D) Bauxite and lignite

145. Identify which statement correctly describes the operation of vapour-compression refrigeration cycle
- (A) Refrigerant condenses at 20°C to reject heat from the building
 - (B) Refrigerant gas vaporizes at 30°C and at high pressure to absorb heat from the building
 - (C) An expansion valve raises refrigerant gas pressure
 - (D) Heat is absorbed from the building by vaporizing refrigerant at low pressure at around 5°C
146. Which of the following statement is not correct about fire-fighting services?
- (A) Primarily are to minimize damage to the building and its service systems
 - (B) Primarily to prevent and minimize danger to people
 - (C) Secondary purpose is to save the building and its continued use
 - (D) Are only used by the professional fire fighters
147. What is the water treatment method for water that contains dissolved solids
- (A) Softening in rapid or slow sand filter
 - (B) Demineralisation by ion exchange
 - (C) Flocculation, filtration and chlorination
 - (D) Aeration followed by disinfection
148. What does ventilating a building mean?
- (A) Maintaining indoor air circulation
 - (B) Minimum provision of 4 air changes/n
 - (C) Provision of adequate outdoor air into each room
 - (D) Removal of moisture, odours and carbondioxide from rooms

149. Bessemer process is the melting of _____ in the manufacturing steel.
- (A) wrought iron
 - (B) pig iron
 - (C) cast iron
 - (D) malleable cast iron
150. The installation of this type of switches for staircases and the corridor, to ensure that they do not get connected to two sources of supply simultaneously is
- (A) Single throw switch
 - (B) Independent switch
 - (C) Double throw switch
 - (D) Emergency light switch
151. Most widely used system for Electrical distribution in residential building is
- (A) Cleat wiring
 - (B) Conduit system
 - (C) Capping wiring
 - (D) Lead wiring
152. Electrical Motors are available in
- (A) Single phase operation only
 - (B) Three-phase operation only
 - (C) Single phase and three-phase operation
 - (D) Neither of the single phase nor 3 phase
153. In a lighting Load sub-circuit, the number of points connected in one sub-circuit should not be more than
- (A) 10 points and load not exceeding 1500 watts
 - (B) 10 points and load not exceeding 800 watts
 - (C) 12 points and load not exceeding 1000 watts
 - (D) 12 points and load not exceeding 1200 watts

154. The water fort of Ancient cities is known as
- (A) Dhanarana (B) Satabhuji
 (C) Audaka (D) Dharma
155. Any ledge, out cropping, or top overlying stratum of rock, which forms a face in excess of 45 degrees is called
- (A) Rim Rock
(B) Rip Rap
(C) Clune rock
(D) Ringlement
156. The occupation or use of land or water area for any human activity or purpose is called
- (A) Land Tell (B) Land use
(C) Land product (D) Interim use
157. A common lot line on which a wall of a structure may be constructed is called
- (A) Compound line
 (B) Zero lot line
(C) Lot line
(D) Montgomery line
158. Land scaping with slow growing, drought plants to conserve water and reduce yard trimmings is called
- (A) Trescaping
(B) Conservescaping
 (C) Xeriscaping
(D) Yeriscaping

159. Expansion of the term CIAM is
- (A) International Congress for Modern Architecture
 - (B) Committee for International Architecture Marvels
 - (C) Committee on Architecture and Monument
 - (D) International Committee for Modern Architecture
160. The open space elements that frame the region, protects farmlands and pre serve critical habitat is called
- (A) Centers
 - (B) Zoo
 - (C) Districts
 - (D) Preserves
161. The term "Ekistics" derives from the Greek word
- (A) Ekiso
 - (B) Oiko
 - (C) Eko
 - (D) Ekisto
162. Landscape structures that collect storm water, runoff and store it until it can infiltrate is called
- (A) Refill structures
 - (B) Retention structure
 - (C) Infield structure
 - (D) Running structure
163. A sensory experience of the landscape often referred to as environmental perception is called
- (A) Landscape planning
 - (B) Landscape placeness
 - (C) Landscape placelessness
 - (D) Landscape perception

164. _____ indicates moisture trapped behind the paint
- (A) Paint Bulging (B) Paint Buckling
 (C) Paint Blistering (D) Paint Crumbling
165. _____ can be used to discover buried features in land and underwater
- (A) Dowsing (B) Close circuit
(C) Drowning (D) Liquid penetrant
166. In ecology _____ is a term describing the relational position of a species or population in an ecosystem
- (A) Nicoles (B) Nishs
(C) Nichols (D) Niche
167. Which of these is not a renewable source of energy
- (A) The sun (B) Wind
 (C) Natural gas (D) Ocean tidal energy
168. The maximum longitudinal slope of streets should be _____ percentage.
- (A) 15 (B) 20
(C) 25 (D) 30
169. Which range of pH is characterised as medium acidic?
- (A) 5.5 – 6.0 (B) 5.6 – 6.0
(C) 5.6 – 6.2 (D) 5.8 – 6.2
170. The amount of clay particles in a soil sample is basically referred to as _____ content.
- (A) Colliodal (B) Elastic
(C) Loess (D) Plastic

171. Which of the following is considered to be the largest contributors to the total annual production of solid waste?
- (A) Textile industry (B) Automobile industry
 (C) Agriculture (D) Medical industry
172. The benefits of using renewable energy supplies in preference to conventional sources are
- (i) They cut carbondioxide emissions
(ii) They decrease the country's reliance on imported fuel and add diversity of energy supply
(iii) They cut emissions of acid rain pollutants
- (A) (i) and (ii) only (B) (i) only
(C) (ii) and (iii) only (D) (i), (ii) and (iii)
173. A covered structure comprising a transverse columned vestibule after the courtyard in an Egyptian temple is a
- (A) Sanctuary (B) Pylon
(C) Cella (D) Hypostyle hall
174. The dwellings made of mud can be seen in
- (A) Marsh Arab dwelling, Iraq-Iran border
 (B) Pueblos, Southwestern United States
(C) Yagua dwelling, Amazon
(D) Masai, Africa
175. Which of the following Indian state has the highest urban population as per the census of India 2011?
- (A) Tamilnadu (B) Madhya Pradesh
(C) West Bengal (D) Bihar

176. Match the National schemes with their objectives.

Schemes	Objectives
(a) NSDP	1. Provide subsidies for construction of housing for urban slum dwellers
(b) SJSRY	2. Provide infrastructure and services in urban areas
(c) VAMBAY	3. Provide basic infrastructure and services in slum areas
(d) JNNURM	4. Provide infrastructure and services in rural areas
	5. Provide self employment to the urban poor

	(a)	(b)	(c)	(d)
(A)	5	3	4	2
(B)	3	5	1	2
(C)	4	1	3	1
(D)	2	5	4	1

177. Match the following :

(a) Plinth	1. Support the vertical members of the opening and shield off the water
(b) Sill	2. Course of stone below cornice either flushed with wall or projecting out
(c) Coping	3. Horizontal projecting course at the base of superstructure
(d) Frieze	4. Horizontal projecting course on the top of the wall and below the roof
	5. Horizontal projecting course above the parapet wall

	(a)	(b)	(c)	(d)
(A)	3	1	2	5
(B)	3	1	5	2
(C)	2	4	5	3
(D)	2	4	1	5

178. The wattle and Daub construction techniques uses mainly
- (A) Mud and stone (B) Mud and Concrete
 (C) Mud and Bamboo (D) Bamboo and stone
179. Which of the following type of foundation is best suitable for the rural structures in terms of stability?
- (A) Natural stone foundation (B) Rammed earth foundation
 (C) Burnt brick foundation (D) Concrete foundation
180. According to CRZ-III B, the area upto 200 m from high tide line is a
- (A) Development with temporary structures
 (B) No development zone
(C) Development with permanent structures
(D) Special economic zone
181. Which of the following activities is prohibited in recreational use zone as per urban land use zoning regulations?
- (A) Sports training centres (B) Swimming pools
 (C) District parks (D) Open air recreation
182. The land area requirement for community hall as per URDPFI guidelines to serve a population of 15000 people is
- (A) 1000 sqm (B) 1500 sqm
 (C) 2000 sqm (D) 2500 sqm
183. The recommended equivalent car space for shopping centre as per URDPFI guidelines is
- (A) 1 ECS/100 sqm of floor area
 (B) 2 ECS/100 sqm of floor area
(C) 3 ECS/100 sqm of floor area
(D) 1 ECS/50 sqm of floor area

184. A practice of using a protective covering, usually of organic matter such as leaves, straw, placed around plants to retain moisture, improve soil conditions and prevent the growth of weeds
- (A) Leaching
(B) Mulching
(C) Screening
(D) Eroding
185. Parking requirement for IT offices within CMA is
- (A) 1 car for every 50 sqm and 1 two wheeler for every 50 sqm of floor area
(B) 1 car for every 25 sqm and 1 two wheeler for every 50 sqm of floor area
(C) 1 car for every 50 sqm and 1 two wheeler for every 25 sqm of floor area
(D) 1 car for every 25 sqm and 1 two wheeler for every 25 sqm of floor area
186. In a hospital, the fire and life safety standards of NBC India, states that Aisles, corridors, ramps, etc. through which patients are moved should have a minimum width of
- (A) 1.5 m
(B) 1.8 m
(C) 2.0 m
(D) 2.4 m
187. According to fire and life safety standards of NBC of India, the air filters of the air handling units shall be made of
- (A) Non combustible material
(B) Combustible material
(C) Non abrasive material
(D) Non volatile material
188. The minimum front set back for institutional buildings exceeding 300 sqm under CMA is
- (A) 3 m
(B) 4.5 m
(C) 6.0 m
(D) 7.5 m
189. The drive way width for one-way movement of traffic under OCR of CMA is
- (A) 1.5 m
(B) 3.0 m
(C) 4.5 m
(D) 6.0 m

190. 'DXF', used to exchange AutoCAD data with other programs refers to
- (A) Diagram Exchange File (B) Diagram Exchange Format
(C) Drawing Exchange Format (D) Drawing Exchange File
191. The command in an AutoCAD drawing which helps to control the global line-type scale factor, in drawing is
- (A) Lunits (B) Ltscale
(C) Locale (D) LWScale
192. The gateway to switch over from model space to paper space in AUTOCAD drawing is
- (A) Paper tab (B) Layout tab
(C) Model tab (D) Space tab
193. Which one of the following is not an 'OSNAP' option in AUTOCAD?
- (A) Arc (B) Tangent
(C) Intersection (D) Parallel
194. The command option, in an AUTOCAD Drawing, which helps converts a polyline into a solid?
- (A) EX (B) E
(C) EXT (D) XE
195. The minimum land area requirement for Agro sector under SEZ Act 2005 is
- (A) 5 hectares (B) 10 hectares
(C) 15 hectares (D) 20 hectares

196. _____ is a horizontal projection (platform) extending beyond the building footprint on one or more sides and may consist of one or more levels.
- (A) Pergola (B) Podium
 (C) Porch (D) Plinth
197. Setting up and expansion of units for disposal of waste and effluents is _____ in CRZ areas.
- (A) Permitted
 (B) Prohibited
 (C) Restricted
 (D) Permitted with special conditions
198. For computation of total income of an accesses under SEZ Act 2005, which of the deduction of the following is allowed
- (A) 50% of profits and gains derived from exports for a period of 5 years
 (B) 20% of profits and gains derived from exports for a period of 5 years
 (C) 10% of profits and gains derived from exports for a period of 5 years
 (D) 100% of profits and gains derived from exports for a period of 5 years
199. The purpose of the UCSICON command is to
- (A) Provide a working plane to draw on
 (B) Permit a user to move the UCS system
 (C) Permit a user to redefine the location of 0, 0
 (D) Permit a user to control the placement and appearance of the icon to help one understand the orientation in the XYZ coordinate system
200. How many grip prints does a circle have?
- (A) 5 (B) 4
 (C) 3 (D) 2
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