

80. A \_\_\_\_\_ is the total components and subsystem that, in combination, convert solar energy into electric energy suitable for connection to a utilization load.
- (a) photovoltaic system
  - (b) solar array
  - (c) a and b
  - (d) neither a nor b
81. A "\_\_\_\_\_" is a building or portion of a building in which one or more self-propelled vehicles can be kept for use, sale, storage, rental, repair, exhibition, or demonstration purposes.
- (a) garage
  - (b) residential garage
  - (c) service garage
  - (d) commercial garage
82. Electrical wiring within the cavity of a fire-rated floor-ceiling or roof-ceiling assembly shall not be supported by the ceiling assembly or ceiling support wires.
- (a) True
  - (b) False
83. Flat cable assemblies shall have conductors of \_\_\_\_\_ AWG special stranded copper conductors.
- (a) 14
  - (b) 12
  - (c) 10
  - (d) all of these
84. For liquidtight flexible metal conduit, if flexibility is necessary after installation, unsecured lengths from the last point the raceway is securely fastened must not exceed \_\_\_\_\_.
- (a) 3 ft for trade sizes ½ through 1¼
  - (b) 4 ft for trade sizes 1½ through 2
  - (c) 5 ft for trade sizes 2½ and larger
  - (d) all of these
85. Listed boxes and handhole enclosures designed for underground installation can be directly buried when covered by \_\_\_\_\_, if their location is effectively identified and accessible.
- (a) concrete
  - (b) gravel
  - (c) noncohesive granulated soil
  - (d) b or c
86. Conductors are considered outside a building when they are installed \_\_\_\_\_.
- (a) under not less than 2 in. of concrete beneath a building or structure
  - (b) within a building or structure in a raceway encased in not less than a 2 in. thickness of concrete or brick
  - (c) installed in a vault that meets the construction requirements of Article 450, Part III
  - (d) all of these
87. A listed exposed work cover can be the grounding and bonding means when the device is attached to the cover with at least \_\_\_\_\_ permanent fastener(s) and the cover mounting holes are located on a non-raised portion of the cover.
- (a) one
  - (b) two
  - (c) three
  - (d) none of these
88. The maximum size conductors permitted in a metal surface raceway shall not be larger than that for which the wireway is designed.
- (a) True
  - (b) False
89. Single-pole breakers with identified handle ties can be used to protect each ungrounded conductor for line-to-line connected loads.
- (a) True
  - (b) False

90. Loop wiring in an underfloor raceway \_\_\_\_\_ to be a splice or tap.
- (a) shall be considered
  - (b) shall not be considered
  - (c) shall not be permitted
  - (d) none of these
91. A reliable conductor that ensures electrical conductivity between metal parts of the electrical installation that are required to be electrically connected is called a(n) "\_\_\_\_\_."
- (a) grounding electrode
  - (b) auxiliary ground
  - (c) bonding conductor or jumper
  - (d) tap conductor
92. Type NM cable shall be protected from physical damage by \_\_\_\_\_.
- (a) EMT
  - (b) Schedule 80 PVC conduit
  - (c) RMC
  - (d) any of these
93. Surge protective devices shall be marked with a short-circuit current rating and shall not be installed where the available fault current is in excess of that rating.
- (a) True
  - (b) False
94. The metallic sheath of metal-clad cable shall be continuous and \_\_\_\_\_.
- (a) flame-retardant
  - (b) weatherproof
  - (c) close fitting
  - (d) all of these
95. Type AC cable is permitted in \_\_\_\_\_ installations.
- (a) wet
  - (b) cable trays
  - (c) exposed
  - (d) b and c
96. Bends in NUCC shall \_\_\_\_\_ between termination points.
- (a) not be made
  - (b) not be limited in degrees
  - (c) be limited to 360 degrees
  - (d) be limited to 180 degrees
97. Where a main bonding jumper is a screw only, the screw shall be identified by a(n) \_\_\_\_\_ that shall be visible with the screw installed.
- (a) silver or white finish
  - (b) etched ground symbol
  - (c) hexagonal head
  - (d) green finish
98. Auxiliary gutters shall be constructed and installed so that adequate \_\_\_\_\_ continuity of the complete system is secured.
- (a) mechanical
  - (b) electrical
  - (c) a or b
  - (d) a and b
99. The receptacle grounding terminal of an isolated ground receptacle shall be connected to a(n) \_\_\_\_\_ equipment grounding conductor run with the circuit conductors.
- (a) insulated
  - (b) covered
  - (c) bare
  - (d) solid
100. Liquidtight flexible metal conduit must be securely fastened by a means approved by the authority having jurisdiction within \_\_\_\_\_ of termination.
- (a) 6 in.
  - (b) 10 in.
  - (c) 1 ft
  - (d) 10 ft