

**400 Back Of The Book
Questions and Answers
2005 National Electrical Code**

**David U. Larson
Master Electrician**

<http://www.electricianeducation.com>

Back of the book Questions

Here you will find 400 questions from Chapters 5,6,7, and 8 of the NEC.
Click [HERE](#) for answers.

1. A fuel cell circuit current is derived from the fuel cell _____.
2. The overall length of a power supply cord for a mobile home shall not exceed _____ feet.
3. In circuits operating at less than 50 volts, a receptacle can not be rated at less than _____ amps.
4. All electrical connections shall be at least _____ inches above the dock of a floating pier.
5. Type ITC cable shall not be installed on circuits operating at more than _____ volts or 5 amps.
6. T or F Service equipment for a floating building can be located on a floating dock.
7. Where no other intrinsically safe conductors are colored _____, color coding shall be permitted.
8. Optical fiber cables can be grouped into how many types?
9. On park trailers, auto transformers shall _____ .
10. Fire alarm cable of type _____ is for use in space used for environmental air.
11. T or F A lighting fixture mounted over a bathtub in a motor home shall be GFCI protected.
12. Each unit of an information technology system shall be provided with a _____ .
13. In article 640 the terms equipment and audio equipment are assumed to be equivalent to _____.
14. A clear working space at least _____ inches deep shall be provided in front of a mobile home panelboard.
15. A cable tray for welding cables shall provide support at not greater than _____ inch intervals.
16. A manufactured building is of the _____ construction type.
17. In zone 20 locations threaded _____ intermediate metal conduit shall be permitted.
18. Indoor antenna and lead in conductors for radio shall be separated by _____ inches from power circuits.
19. T or F Motion picture projection rooms shall be considered as hazardous locations.
20. All accessible portions of _____ communications cable shall be removed.
21. T or F Removable links or removable conductors shall be permitted to be used as the disconnecting means.
22. T or F Equipment for use in electroplating process need not be identified.
23. Each recreational vehicle containing a 120 volt electrical system shall contain a _____ amp circuit.
24. Any pit or depression below the level of the floor in a hangar shall be classified as _____ .
25. T or F A park trailer is intended for year-round use.
26. Network powered broadband communications cables shall have a vertical clearance of _____ from roofs.
27. Coaxial cable shall have a separation of at least _____ from electric light and power

conductors.

28. A device that changes DC input into an AC output is called a(n) _____.
29. Where operational continuity of required, control circuits of _____ volts or less may be ungrounded.
30. T or F Outlets are permitted in cellulose nitrate film storage vaults for portable lamps only.
31. Where irrigation cable terminates, _____ shall be used at all points.
32. Electrical wiring below the surface of Class I Division 1 location shall be sealed _____ feet of emergence.
33. Flexible cords immersed in or exposed to fountain water shall be marked _____ .
34. Outlets that are unused in manufactured wiring systems shall be _____ .
35. All electric pool water heaters shall the heating elements subdivided into not more than _____ amp loads.
36. Temporary electrical power and lighting shall be permitted for a period not to exceed _____ days.
37. T or F Lighting in a hoistway shall be connected to the load side of a GFCI protected device.
38. Cable trays for welding cables shall have a permanent sign at intervals not greater than _____ feet.
39. GFCI protection is not required for equipment at a circuit if the receptacle is of the _____ type.
40. A minimum of _____ inches shall be provided between neon tubing and any surface other than its support.
41. An electrically operated pipe organ keyboard shall have conductors with thermoplastic of _____ insulation.
42. To be considered an assembly occupancy there must be at least _____ persons.
43. In a hospital, a patient bed shall be supplied by at least _____ branch circuits.
44. T or F Medical X-Ray equipment is covered by article 660.
45. Meters in class 1 division 2 locations shall be permitted to be connected by _____.
46. Heating of a nominally insulating material due to its own dielectric losses is _____ heating.
47. Multiwire branch circuits _____ be permitted in class 1 division 1 locations.
48. For electrolytic cells, cell line conductors shall be joined by bolted, welded, clamped or _____ connectors.
49. The lock nut busing and double lock nut types of contacts shall _____ for bonding purposes.
50. An office desk with a prewired light can not have a cord longer than _____ feet.
51. Curtain machines shall be _____ .
52. Heating and air conditioning circuits on an elevator shall not exceed _____ volts.
53. In a crane, short lengths of conductors can remain _____ near resistors.
54. The percentage for feeder demand for 100,001 - 200,000VA of stage set lighting is _____ %.
55. T or F Type MC cable is allowed on a motion picture studio stage.
56. For a welder the next higher breaker is permitted if the calculated value does not match a standard size.

57. Carnival rides closer than _____ feet shall be bonded to the same grounding electrode system.
58. Dielectric heating control panels shall be of the _____ type.
59. The minimum width film used in a _____ projector is 35mm.
60. Panelboards for information technology equipment cannot have more than _____ overcurrent devices.
61. Pool heater branch circuit conductors shall not be less than 125% of the _____ rating.
62. The power supply cord for a mobile home shall be not less than _____ feet.
63. Irrigation cable shall be supported at intervals not exceeding _____ feet.
64. In a barn, poultry and animal excrement may cause _____ vapors.
65. Ampacities for busbars used in electroplating equipment shall be taken from table _____ .
66. T or F A manufactured home is considered to be a manufactured building.
67. The minimum wire size that can supply an outlet for and arc or a xenon projector is _____ AWG.
68. The electrical datum plane is 2 feet above the _____ tide.
69. T or F Closed construction is when a building is condemned and must be torn down.
70. Photovoltaic disconnecting means shall not be installed in a(n) _____ .
71. Equipotential planes shall be bonded to the electrical grounding system by a minimum _____ .
72. _____ locations are covered under article 500 in the NEC.
73. All receptacles installed on any temporary service shall be of the _____ type.
74. A tank storage installation below grade, inside a building, is classified as class 1 division _____ .
75. An enclosure or insert within a larger room used for spray/coating dipping is called a(n) _____ .
76. Pier distribution systems shall not exceed _____ volts phase to phase.
77. The maximum cross-sectional area of conductors permitted in a seal of RMC in class 1 division 2 is _____ .
78. T or F Service equipment on a floating building is allowed to be installed in or on the structure itself.
79. The emergency switch for an unattended gas pump must be a minimum of _____ feet from the pump.
80. Park trailer low voltage wires are required to be _____ .
81. The thickness of the sealing compound for class 1 division 2 fittings can be no less than _____ inches.
82. A recreational vehicle is required to have a receptacle on any wall space _____ feet or wider.
83. Aircraft batteries shall not be charged where installed in an aircraft located inside a _____ .
84. The length of a mobile home power cord shall not be less than _____ feet.
85. Conduit run from class 1 division 2 to unclassified may have the seal within _____ feet of the boundary.
86. T or F A fuse can be used for OCP of DC conductors supplying power to anodizing

- equipment.
87. Metal conduit that contains no unions, couplings boxes and _____ shall not require a conduit seal.
88. T or F A disconnecting means is required for industrial machinery.
89. Enclosures for fuses and switches shall be _____ in a class 2 division 1 location.
90. Electrically controlled irrigation machines shall have a main disconnect not more than 50 feet from _____ .
91. Legally required standby power will be available not _____ 60 seconds.
92. T or F A switch that is listed as being acceptable for use within 5 feet of a pool shall be permitted.
93. A sign shall be placed at service equipment that indicates type of power stand by source and its _____ .
94. A permanent plaque of all electrical power sources in each premises shall be placed at _____ location.
95. For electrical equipment adjacent to a lake, the smallest equipment grounding conductor is _____ AWG.
96. A sign shall be placed at the _____ indication the location of on site emergency power source.
97. Integrated systems covered by article 685 shall be permitted to have two wire DC circuits _____ .
98. A DC photovoltaic array on the roof of a dwelling must have DC ground fault protection to reduce _____ .
99. Portable _____ can be used in a spray area during spraying operations.
100. A nursing home is a building or part thereof housing more than _____ persons during a 24 hour period.
101. A fuel system that supplies power independently of the electric utility company is called _____ .
102. NM raceways must be encased in at least _____ " of concrete to be used in any assembly occupancies.
103. The _____ of the manual fuel shut-off valve shall be marked at the location of the disconnecting means.
104. Fire pump control equipment shall be mounted on _____ supporting structures.
105. A hazardous location with easily ignited fibers are handled would be a _____ location.
106. All cables in an agricultural building shall be secured within _____ inches of any box, cabinet or fitting.
107. Hazardous class III locations are hazardous because of the presence of _____ .
108. Boxes not over _____ cubic inches, in a manufactured building, shall be affixed with anchors or clamps.
109. A hazardous location of class II is hazardous because of the presence of _____ .
110. Carnival rides are required to have a disconnecting switch within _____ feet of the operator station.
111. The protection technique _____ shall be permitted for equipment in a hazardous location if identified.

112. Back stage lamps shall provide an air space if not less than 2" between the lamp and _____ material.
113. Article 511 covers what kind of installation?
114. For emergency systems covered by article 700, switches connected to control emergency lighting _____ .
115. What type locations does article 510 include?
116. Legally required standby systems shall have a visual signal to indicate that the battery charger is _____ .
117. T or F For portable optional standby power sources, a visual signal to indicate derangement is not required.
118. Class I Division I conduits shall have seals installed within _____ from the enclosure.
119. What chapter of the NEC covers installations of power production sources in parallel with a primary source?
120. Class I Division I conduits trade size _____ shall be sealed in each conduit entry into enclosures.
121. Article 720 requires what standard size lamp holder or rating?
122. Sealing compound shall be used in type MI cable termination fittings to _____ .
123. T or F PLTC cable not terminated at equipment and is tagged for future use is considered abandoned.
124. The zone classification system is an alternative to the division classification system covered in _____.
125. T or F Instrumentation tray cable can be used as aerial cable on a messenger at 240 volts.
126. There are _____ different Classes of hazardous locations.
127. For fire alarm circuits, can FPLP cable be substituted by FPL cable?
128. Enclosing electrical parts in a compound to prevent ignition of an explosive atmosphere is called _____ .
129. _____ dusts are not covered by article 506 in the NEC.
130. T or F Type NM cable can be installed in a high occupancy building if it is not subject to a fire rating.
131. X-Ray equipment transformers must comply with NEC article 450.
132. Each general care patient bed shall be supplied with at least _____ branch circuits.
133. A pipe organ conductor shall have conductors with _____ or _____ insulation types.
134. Optical fiber cables can be grouped into _____ types.
135. A circuit where a spark is incapable of causing ignition of combustible material is called _____ .
136. The voltage drop for sensitive electrical equipment shall not exceed _____ %.
137. T or F Listed hybrid cable is allowed for use with closed loop power distribution systems.
138. Conductors supplying data processing equipment shall have an ampacity of not less than 125% of _____ .
139. Where practicable, a separation of 1.8 meters shall be maintained between communications _____ .
140. The range of human hearing is typically _____ .
141. What article covers amateur radio transmitting equipment.

142. Receptacles on construction sites shall not be installed on branch circuits that supply _____ .
143. An air duct does not include _____ for purposes of NEC article 820.
144. Sign ballasts located in soffits require an access door at least _____
145. Type BLP cables shall be listed as having adequate fire-resistant and _____ characteristics.
146. NEC article 604 applies to field-installed wiring using off-site manufactured subassemblies for _____.
147. A separation of at least _____ is required between network communication cable and power cables.
148. Protection _____ is a type of protection where a fault capable of causing ignition is not likely to occur.
149. Direct burial coaxial cable shall be separated by _____ inches from power cables.
150. Conductors of intrinsically safe circuits shall be separated _____ from non intrinsically safe circuits.
151. All antenna masts shall be effectively _____ .
152. Transformers in a class III location must have _____ enclosures.
153. The grounding conductor in communications circuits can not be smaller than _____ AWG.
154. Ventilating pipes for rotating electrical machinery shall be metal not less than _____ mm thick.
155. For listed explosion proof equipment, factory threaded entries shall be made up with _____ .
156. Each motion picture projector shall have clear working space not less than _____ inches on each side.
157. Conduit seals shall be installed within _____ inches from the enclosure to which they connect.
158. In reference to mobile homes, appliances that can be cord and plug connected include _____ .
159. A minimum of 70% of all recreational vehicle sites with electrical supply shall have a(n) _____ receptacle.
160. The maximum amperes allowed for footlights and boarder lights is _____ amps.
161. Each receptacle of DC plugging boxes on stage shall be rated at not less than _____ amps.
162. Amusement rides shall not be located within _____ meters of conductors operating in excess of 600 volts.
163. Audio signal processing, amplification, and reproduction equipment shall comply with NEC article _____ .
164. GFCI protection for personnel is required at carnivals for all _____ outlets accessible to the public.
165. Class 1 locations with totally enclosed motors shall not have external surfaces temperatures _____ .
166. In assembly occupancies, nonmetallic raceways encased in not less than _____ of concrete are permitted.
167. A circuit in which a spark is incapable of causing ignition of flammable material is

considered _____ .

168. Luminaries more than _____ above the floor in a patient vicinity are not required to be grounded.

169. Apparatus circuits not intrinsically safe but affect the circuits that are intrinsically safe are _____ .

170. The space 3 feet above an open top spray booth shall be considered a Class _____ location .

171. Class _____ motors shall be totally enclosed, pipe ventilated, or totally enclosed fan cooled.

172. T or F Wiring above Class 1 locations shall be in rigid metal conduit only.

173. Receptacles in Class 2 locations shall be designed so that connections can not be made when _____ .

174. Emergency controls for attended self service motor fuel dispensing facilities shall be _____ .

175. Device contacts in Class 2 locations in which sparks may produced shall be provided with _____ .

176. Locations where flammable liquids like gasoline will not be transferred are considered _____ .

177. In automotive service areas, 125 volt receptacles for diagnostic equipment shall be _____ .

178. Receptacles shall provide connection to the grounding conductor of flexible cords in _____ locations.

179. In Zone 20 and 21 locations, a _____ branch circuit shall not be permitted.

180. Atmospheres containing combustible metal dust are classified as _____ .

181. Locations shall be classified depending on the properties of the _____ that may be present.

182. _____ is a typical Class 1 Group D location for hazardous material.

183. Conductors of intrinsically safe circuits shall be separated _____ from non intrinsically safe circuits.

184. MESH stands for _____ as per the NEC.

185. In Class 3 division 1 & 2 locations switches shall be _____ .

186. Hazards that exist due to ignitable fibers are Class _____ locations.

187. Boxes and fittings used for taps shall be _____ when installed in Class 2 Division 1 hazardous locations.

188. Hazards due to combustible dust are considered _____ locations.

189. Sealing fittings for raceways between a Class I Division 2 and unclassified shall be within 10' of _____ .

190. Where flammable gas vapors of flammable liquids are present, this is a _____ location.

191. Dusttight enclosures are constructed so that dust will not _____ under specific test conditions.

192. Oil immersion shall be permitted for current interrupting contacts in _____ locations.

193. In each conduit run leaving as Class 1 Division 1 location, the sealing fitting can be located _____ .

194. Group A gas in Class 1 locations is _____ .
195. The locknut bushing and double locknut types of conduit shall not be depended on for bonding in _____.
196. What material can be found in a Class 3 Division 2 location?
197. T or F In Class 3 Division locations, electrical metallic tubing is an acceptable wiring method.
198. All areas designated as hazardous classified locations shall be properly _____ .
199. General purpose enclosures shall _____ permitted for intrinsically safe apparatus.
200. All apparatus of _____ systems shall be verified for Class 1 Division locations.
201. Mobil aircraft battery chargers must carry a sign to keep at least _____ feet away from aircraft engines.
202. Branch circuit conductors supplying a unit of data processing equipment shall have an ampacity of _____.
203. Manufactured wiring systems shall have a minimum conductor size of _____ AWG.
204. The handle of an electrostatic spray gun shall be electrically connected to ground by _____ .
205. T or F A single occupancy floating building may have more than one service feeder.
206. Conductors for pipe organs shall have thermoplastic or thermosetting _____ .
207. Multiwire branch circuits for temporary wiring shall have the means to simultaneously disconnect _____ .
208. _____ on sensitive equipment systems shall not exceed 1.5% for branch circuits.
209. What information is required on the nameplate of industrial machinery?
210. T or F Type NM cable is an acceptable wiring method in agricultural buildings.
211. Where a boat slip has receptacles of different voltages, the one with _____ is required to be calculated.
212. T or F Multi wire branch circuits are allowed in zone 20 and zone 21.
213. Shore power for boats shall be not less than _____ amps.
214. How many feet above the highest high tide is the electrical datum plane?
215. Ampacity of supply branch circuit conductors in NEC 660 shall be _____ of the long time rating.
216. Where unusual conditions exist in a specific occupancy, _____ shall judge application of specific rules.
217. When a fire pump motor is operating at 115% of its FLC, the supply voltage shall drop _____ %.
218. Temporary power is permitted for a period not to exceed _____ days.
219. Isolating switches for transformers may be installed in _____ enclosures.
220. Metal poles used to support signs can contain the sign _____ conductors.
221. Threaded entries into explosion proof equipment shall be made up with _____ fully engaged.
222. In a class 1 location, fixed lighting shall be _____ feet above the floor where vehicles are driven.
223. Control panels shall be of the _____ construction type.
224. Branch circuits that supply neon tubing installations shall not be rated in excess of _____

amps.

225. A hazardous location in which easily ignitable fibers are stored or handles is _____ .
226. The disconnecting means of a sign shall be _____ of the sign or able to be locked open.
227. Unidentified portable electric lamps _____ be used in a spray area during spray operations.
228. NPLFA cable where located within 7 feet of the floor shall be securely fastened at intervals _____ .
229. T or F Temporary 30 amp 120 volt receptacles not part of permanent wiring need not be GFCI protected.
230. Plenum optical fiber raceways shall be listed as having adequate fire-resistant and low _____ .
231. Sign or outline lighting system equipment shall be at least _____ above areas accessible to vehicles.
232. Portable lighting equipment shall be equipped with a(n) _____ .
233. A branch circuit that supplies a neon tube sign shall not exceed _____ amps.
234. A fixed lamp holder located above lanes where vehicles travel shall be _____ the floor level.
235. Receptacles on construction sites shall not be installed on the same circuit that supplies _____ .
236. Electromagnetic valve supply conductors for a pipe organ shall not be less than # _____ AWG.
237. The maximum current of a photovoltaic source shall be all the parallel module currents times _____ %.
238. Electric motor driven fire pumps shall have a _____ source of power.
239. In an integrated electrical system a two-wire DC circuit shall be permitted to be _____ .
240. The electric vehicle coupler shall be provided with a positive means to prevent _____ .
241. For office furnishings, convenience receptacles are permitted in _____ accessories.
242. Where 3 elevators are on a single feeder, the demand factor is _____ .
243. The allowable ampacities of conductors for cranes and hoists are according to table _____ .
244. Where a crane is operated by more than one motor, a _____ conductor shall be permitted.
245. The control system of a dumbwaiter can aid in the _____ of the moving member.
246. In motion picture studios, live parts shall be encased to prevent _____ by persons and objects.
247. Individual partitions or groups of interconnected individual partitions shall not contain multiwire circuits.
248. In land areas not subject to _____, the electrical datum plane is 2 feet above the highest water level.
249. Luminaries exceeding _____ of the ignition temperature shall be of a type that has been tested.
250. Bends in type ITC cables shall be made so as to _____ .
251. An enclosure so constructed that dust will not enter is _____ .

252. Class 1 remote control and signaling circuits shall not exceed _____ .
253. Circuit and equipment operations at less than 50 volts shall comply with article _____ .
254. Conduit seals shall be installed within _____ inches from the enclosure.
255. In an agricultural building all cables shall be secured within _____ of each box or fitting.
256. The overall length of a power supply cord to a mobile home shall not be less than _____ .
257. Branch circuits that supply neon tubing shall not be in excess of _____ amps.
258. Color shall be permitted to be identified as _____ for boxes that contain only intrinsically safe wiring.
259. Bends made in ITC cable shall be so made as to _____ .
260. Pumps, bleeders, and withdrawal fittings indoors shall be _____ location.
261. Means shall be provided to disconnect ungrounded conductors of electric power production _____ .
262. The service equipment for a floating building shall be located _____ but not in or on the building.
263. Antenna conductors for transmitting stations attached to buildings shall be _____ clear of surface.
264. In a manufactured building, cables shall be permitted to be secured where _____ are used.
265. Temporary electrical power shall be permitted for 90 days for _____ .
266. Conductors supplying outlets for arc and xenon movie projectors shall not be smaller than _____ .
267. Motors for marine hoists shall not be located below the _____ .
268. The feeder demand factor for stage set lighting @60,000 VA is _____ % from 50,001 to 100,000VA.
269. The service equipment for floating buildings shall be located _____ the building.
270. Sign lighting system equipment shall be at least 14' above areas _____ .
271. A separation of at least 6 feet shall be maintained between power and lightning conductors _____ .
272. Conductors in elevator shafts encased in a raceway shall have _____ insulation.
273. Where a portable optional standby source is used as a separately derived system it shall be _____ .
274. Overhead conductors outside of a tent at a carnival shall be 18 feet above any place that _____ .
275. T or F Electronic organs are not covered by the National Electrical Code.
276. The alternate source for legally required standby systems is not required to have _____ .
277. Each carnival ride shall be provided with a _____ within 6 feet of an operator.
278. All electrical equipment located within 5 feet of the inside of a pool shall be _____ .
279. A park trailer is intended as a _____ .
280. Taps to individual irrigation motors shall not be smaller than # _____ AWG.
281. T or F A floating structure may have an electrical service mounted within 5 feet of any side of the platform.
282. Every conductor that enters a type e equipment shall be terminated with a type _____ .
283. Cellulose nitrate film storage vaults are required to have a switch _____ to control

lamps.

284. GFCI protection devices shall be located not less than _____ mm above the datum plane.

285. T or F Assembly occupancies are classified as being designed for 100 or more persons.

286. Class 1 pendant luminaries shall be suspended by and supplied through threaded _____ .

287. Reactor-type dimmers may be permitted to be connected to the grounded conductor _____ .

288. Solar photovoltaic systems provide _____ output for utilization.

289. A fuel cell is an electromechanical system that consumes _____ to produce electric current.

290. A limit switch shall be provided to prevent the load block from passing the _____ of hoisting mechanisms.

291. Conductors that supply one or more welders shall be protected by a(n) _____ set at not more than 200%.

292. Voltage drop at controller line terminals of a fire pump shall not exceed _____ % at starting conditions.

293. For sensitive electronic equipment the voltage drop on any _____ shall not exceed 1.5%.

294. In a fuel cell system to location of the manual fuel shut-off shall be marked at the _____ .

295. A zone 20 hazard is an area where _____ are present.

296. Fore alarms shall be identified at all terminal and _____ locations.

297. The demand factor for 3 cranes and 2 hoists on a common conductor system is _____ .

298. The 30 conductor limitation of 366.22 shall not apply to _____ .

299. For stand alone systems, grounding and bonding shall be in accordance with NEC article _____ .

300. Every professional type projector shall be located within a(n) _____ .

301. Crane control cabinet doors shall either open at least 90 degrees or be _____ .

302. The device used to transfer energy between the output circuit and the object to be heated is _____ .

303. Supply equipment for electric vehicles shall be located at a minimum height of _____ inches.

304. Rooms containing ammonia refrigeration systems with adequate ventilation may be classified as _____ .

305. What type cable shall be permitted for Class 2 Division 1 locations? _____

306. Aircraft batteries _____ charged where installed in an aircraft located even partially inside a hangar.

307. Wiring methods for Class 3 division 1 locations shall permit threaded _____ metal conduit.

308. A maximum of _____ 15 or 20 amp circuits are allowed in a recreational vehicle with a 30 amp system.

309. What is the demand factor in % applied to 5 receptacles supplying shore power?

310. A class 1 division 2 location included flammable gases that are normally _____ in

containers.

311. At an unattended self-service marine motor fuel dispensing facility the emergency control shall be _____.

312. _____ is a sufficient raceway for fixed wiring above Class 1 locations.

313. Motor fuel dispensing facilities are covered by article _____.

314. The size of supply conductors for industrial machinery shall have an ampacity of _____.

315. Shore power for boats shall be provided by single receptacles rated not less than _____ amps.

316. Grounding buses of branch circuit panel boards serving the same patient vicinity shall be bonded _____.

317. In a pediatric location, receptacles located in rooms and playrooms shall be _____.

318. T or F Parking garages used for parking or storage shall be permitted to be unclassified.

319. A manufactured wiring system is a system assembled by a manufacturer _____ inspected at the building.

320. In agricultural buildings a 125 volt 15 ampere receptacle located in a(n) _____ shall be GFCI protected.

321. Wiring systems for office furnishings shall be identified as suitable for providing _____ in partitions.

322. Some professional projectors that use carbon arc or xenon may develop _____.

323. T or F Portable X-Ray equipment is the type installed in a vehicle.

324. Where flexible connections are necessary, _____ fittings for class 1 division 1 shall be permitted.

325. Receptacles in countertop areas shall not be installed in the _____ position.

326. A grounding electrode conductor is _____ for a manufactured building.

327. A 20 amp 125 volt receptacle located _____ from the inside wall of a pool shall be GFCI protected.

328. Class 3 Division 1 & 2 flexible cords shall be of a type listed for _____.

329. Poultry and animal excrement may cause _____.

330. A tank where electrochemical reactions are caused is a(n) _____.

331. Sign or outline lighting system equipment shall be at least 14 feet above areas accessible to _____.

332. Exposed optical fibers shall be supported by the _____.

333. _____ conduit is permitted in Class 1 Division 1 hazardous locations.

334. Overhead coaxial cable shall have vertical clearance above roofs of not less than _____ feet.

335. Type _____ cable shall be permitted in cable trays.

336. In a marina, overhead wiring shall be installed so as to avoid possible contact with boat _____.

337. Requirements for wiring in a fish farm pond can be found in article _____.

338. Mobil homes shall have a connection to a wiring system at _____ volts nominal.

339. A cord on office furnishings with _____ shall not exceed 9 feet.

340. T or F Golf carts are included in the requirements of the National Electrical Code.

341. A neutral of a feeder supplying solid state _____ dimmer systems shall be considered

current carrying.

342. A resistance welder nameplate shall contain the following information _____ .

343. _____ raceways shall not be used for branch circuits that supply patient care areas.

344. Network powered broadband communication cable run above roofs shall have _____ of vertical clearance.

345. Equipment in Class 1, 2, I and 3 shall be threaded with a taper of _____ inch per foot.

346. Flameproof enclosures carry a designation of the letter _____ .

347. Flexible cords shall be permitted for use in Class 1 Division 1 and 2 _____ .

348. Simple apparatus in an intrinsically safe system _____ required to be listed for such use.

349. The maximum length of a cord on a _____ is 36 1/2 feet.

350. Burglar alarm wiring is covered in article _____ of the National Electrical Code.

351. The control panels for induction dielectric heating equipment shall be of the _____ construction.

352. Low voltage cables connected to oil-filled units that are not completely sealed shall have _____ insulation.

353. Temporary lighting can not be connected to _____ circuits.

354. Grounding conductor for an enclosure of a DC cell line power supply apparatus is minimum _____ .

355. A stationary point of an irrigation machine shall be connected to a grounding electrode for _____ protection.

356. Audio system equipment supplied by branch circuit power shall not be placed _____ of a pool spa.

357. Equipment for use in electroplating processes _____ for such service.

358. Class 3 Division 1 & 2 receptacles and attachment plugs shall prevent the escape of _____ .

359. Equipment is hermetically sealed by _____ .

360. Class 2 Division 1 flexible connections shall have _____ flexible connectors.

361. A(n) _____ shall be provided to disconnect each resistance welder from the spray circuit.

362. _____ conditions must be met for an integrated electrical system.

363. Where flexibility is required on a floating building _____ conduit shall be permitted.

364. Each elevator shall have a single means for disconnecting ungrounded conductors _____ .

365. Classification is based on dangerous quantities of flammable vapors, residues, dust or _____ .

366. In a theater where dimmers are installed each dimmer shall have a rating of _____ of the dimmer rating.

367. A mating electric vehicle inlet and electric vehicle connector is an electric _____ .

368. Branches of patient care emergency system shall be connected to the alternate power supply in _____ .

369. An assembly is designed to have a capacity of _____ persons.

370. A park trailer is intended for _____ use.

371. Branch circuit conductors supplying 8 electroplating units shall have an ampacity of not less than _____ .

372. Electrical materials installed in or attached to a recreational vehicle shall be _____ .

373. Wired partition interconnections using flexible cord up to _____ feet are permitted.
374. According to article 700, all equipment shall be _____ for use on emergency systems.
375. Service equipment for a floating building shall be located _____ the floating building.
376. Circuit protection shall not be required for _____ that are totally within the cell line working zone.
377. In a recreational vehicle receptacles are required on walls _____ or longer.
378. The insulated conductors of type ITC cable shall be in sizes _____ .
379. A photovoltaic power source shall be permitted to be connected to the _____ of the service disconnect.
380. A single disconnecting means shall be permitted to be installed between a remote power source _____ .
381. For article 647 to apply, all junction box covers need to indicate the system voltage and _____ .
382. Data processing circuit ampacity shall be _____ % of the total connected load.
383. Class 1 Division 1 enclosed type motors automatically _____ when the gas supply fails.
384. A receptacle for an electrical vehicle shall be located not more than _____ above the parking surface.
385. Class 1 remote control signaling circuits shall not exceed _____ volts.
386. Where accessible to the public, flexible cords and cables laid on the ground shall be covered with _____ .
387. Ferrous metal faceplates shall not be less than _____ inches in thickness when used in a park trailer.
388. Underground wiring shall be permitted in rigid metal conduit _____ of cover at a bulk storage plant.
389. Conductors for circuits and equipment operating at less than 50 volts shall be _____ AWG copper.
390. The insulation of conductors used in the secondary circuit of electric welders shall be _____ .
391. In manufactured wiring systems all unused outlets shall be _____ .
392. Fittings and boxes shall be provided with _____ for connections to terminations and shall be dusttight.
393. Where shielded conductors or cables are used, shields shall be _____ .
394. All 15 amp and 20 amp receptacles used as a means of connecting sensitive electronic equipment _____ .
395. Type AC cable can be considered a _____ .
396. Documentation for a hazardous location shall be available to _____ who operates electrical equipment.
397. A wired office partition power supply cord shall not exceed _____ feet in length.
398. Mobile home service equipment shall be rated at not less than _____ amps.
399. The bonding conductor for a recreational vehicle shall be a minimum of # _____ copper.
400. Cable splices or terminations in power limited fire alarm systems shall be made in _____ .

Back of the Book Questions - Answers

Here you will find answers to the 400 questions from the back of the book.

Back of the book answers - 2005 NEC

1	nameplate 692.8A	51	listed 520
2	36 1/2 feet 550.10D	52	600 volts 620.3C
3	15 amps 720.6	53	exposed 610.11B
4	12 inches 555.9	54	60% 530.19A table
5	150 volts 727.5	55	T 530
6	F fixed dock 553.4	56	T 630.12
7	light blue 504.80C	57	12 feet 525
8	three 770.9	58	deadfront 665.21
9	not be used 552.20E	59	professional 540
10	NPLFP 760.81G	60	42 645.17
11	T 551.53B	61	125% 680.9
12	manufacturer's 645.16	62	20 feet 550
13	audio signal processing equipment 640.2	63	4 feet 675.4C
14	30 inches	64	corrosive 545
15	6 inches 630.42A	65	366.10
16	545.2	66	F 545
17	steel 506.15	67	#8 AWG 540.13
18	2 inches 810.18B	68	highest high 682.2
19	F 540.10	69	F 545
20	abandoned 800.36	70	bathroom 690.14C1
21	T 668.13B	71	#8 AWG 547.10B
22	F 669.3	72	hazardous 500
23	15 amp 551.42	73	grounding 590
24	Class 1 Division 1 Zone 1 513.3	74	1 Zone 1 515
25	F 552.4	75	spray booth 516
26	8 feet 830.44F	76	600 volts 555.4
27	4 inches 820.44F1	77	25% 501.15C6
28	inverter 690.2	78	F 553.4
29	150 volts 685.14	79	20 feet 514
30	F 530.52	80	copper 552.10B1
31	fittings 675.4D	81	5/8 inches 501.15C3
32	10 feet 514.8	82	T 551.41
33	water resistant hard service 680.56B	83	hanger 513

Back of the book - Answers

34	capped 604	84	21 feet 550.10D
35	48 amps 680.9	85	10 feet 501.15B2
36	90 days 590.3	86	T 669.9
37	F 620.24A	87	fittings 501.15 ex4
38	20 feet 630	88	T 670.4B
39	locking 525.23B	89	dusttight 502.115B
40	1/4 inch 600.41C	90	the machine 675.8B
41	thermosetting 650.6B	91	exceed 701.11
42	100 persons 100	92	T 680.22C
43	two 517	93	location 702.8
44	F 660.1	94	service equipment 705.10
45	flexible cord 501.105B6	95	#12 AWG 682.31A
46	dielectric 665.2	96	service equipment 705.10
47	shall not 501.40	97	ungrounded 685.12
48	compression 668.12C	98	fire hazards 690.5
49	not be depended on 501.30A	99	none of the above 516.40
50	9 feet 605.5B	100	4 persons 517.2

101	stand alone 692.2	151	grounded 810.15
102	2 inches 518.4	152	dusttight 503.120
103	location 692.54	153	#14 AWG 800.120
104	non combustible 695.12F	154	.53mm 502.128
105	Class 3 500.5D1	155	4 1/2 threads 500.8D 3x.
106	8 inches 547.5B	156	30 inches 540.12
107	ignitable fibers 500.5D	157	18 inches 501.15A1
108	100 cubic inches 545.9B	158	refrigerator, range 550.2
109	combustible dust 500.5C	159	30 amp 551.71
110	6 feet 525.21A	160	20 amps 520.41
111	purged and pressurized 507D	161	30 amps 530.14
112	combustible material 520.47	162	4.5 meters 525.5B
113	commercial garages 511	163	640 520.4
114	shall not be used 700.20	164	15 and 20 amp 120 volt 525.23A1
115	specific locations 510	165	in excess of 80% of ignition temperature 501.125
116	not functioning 701.8C	166	2 inches 518.4A
117	T 702.7	167	intrinsically safe 504.2

Back of the book - Answers

118	1 1/2 feet 501.15A1sub2	168	7 1/2 feet 517.13B
119	seven 705.1	169	associated apparatus 504.2
120	2 inches 501.15A1sub2	170	1 516.3C3
121	660 watts 720.5	171	3 503.125
122	exclude moisture 501.15	172	F 515.7
123	F 725.5	173	live parts are exposed 502.145B
124	article 500 505.1	174	not more than 100 feet from dispensers 514.11B
125	F 727.5	175	identified 502.150A2
126	three 500.1	176	unclassified 511.3A6
127	no 760.61 table	177	GFCI protected 513.12
128	encapsulation 505	178	Class 1 Division 1 502.145A
129	metallic 506	179	multi wire branch circuit 506.21
130	T 518.4B	180	Class 2 Group E 500.6B1
131	F 660	181	vapors, liquids or gases 505.5
132	two 517.18A	182	propane 500.6A4
133	thermoplastic thermosetting 650	183	2 inches 504.30A2.1
134	three 770.9	184	maximum experimental safe gap 500.6A3
135	intrinsically safe 504	185	dusttight 503.115
136	1.5% 647	186	3 505
137	T 780.6	187	identified 502.10A1.4
138	the total connected load 645	188	Class 2 502
139	and lightning conductors 800.53	189	the boundary 501.15B2
140	20-20K Hz 640	190	class 1 501
141	8 810.1	191	enter 500.2
142	temporary lighting 590.4D	192	class 1 division 2 500.7
143	plenum 820.2	193	on either side of the boundary 501.15A4
144	3 foot by 2 foot 600.21E	194	acetylene 500.6
145	low smoke producing 830.179A2	195	class 2 division 1 502.30A
146	communications circuits in inaccessible areas 640.1	196	ignitable fibers 500.5
147	4 inches 830.44	197	T 503.10A
148	N 505.2	198	documented 500.4
149	12 inches 820.47B	199	be 504.10B
150	at least 2 inches 504.30.2.1	200	signaling alarm 501.150A

201	5 feet 513.10A	251	dusttight 500.2
-----	----------------	-----	-----------------

Back of the book - Answers

202	125% of connected load 645.5A	252	600 volts 725.21B
203	#12 AWG 604.6	253	720
204	metallic connection 516.10B3	254	18 inches 501.15
205	F 553	255	8 inches 547.5
206	insulation 650.6D	256	21 feet 550.10D
207	all ungrounded conductors 590.4C	257	30 amps 600
208	voltage drop 647.4D	258	light blue 504.80C
209	voltage current phase 670.3D	259	not damage the cable 721.1
210	F 547.5A	260	Division 2 515.3
211	larger kW 555.12 note 1	261	from all other conductors 705.20
212	F 506.21	262	adjacent to 553.3
213	15 555.19A4	263	3 inches 810.54
214	2 feet 555	264	#10 AWG 545.4B
215	100% 660.6	265	holiday decorations 590
216	authority having jurisdiction 510.2	266	#8 AWG 540.13
217	not more than 5% 695.7	267	datum plane 555
218	90 days 590	268	75% 530.19A
219	general purpose 501.115B2	269	adjacent to but not in 553
220	circuit 600.5C3	270	accessible to vehicles 600.9A
221	at least 5 508D	271	and communication wires 800.53
222	12 feet 511.7B1b	272	flame retardant 620
223	dead front 665.21	273	grounded to a grounding electrode 250.30 702.10
224	30 amp 600.5B2	274	is subject to truck traffic 525.5A
225	Class 3 Division 2 500.5D2	275	T 650
226	in sight 600	276	GFCI protection 701.17
227	shall not 516.4D	277	fuel disconnect 525.21A
228	not more than 450mm 760.30A1	278	grounded 680.6
229	F 590.6A	279	a temporary dwelling 552
230	smoke producing characteristics 770.182A	280	#14 AWG 675.10
231	14 feet 600.9	281	F 553
232	handle 511.4B2	282	e terminal 505
233	30 amps 600.5b2	283	located outside the vault 530.51
234	12 feet 511.7B2	284	300mm 682.15
235	temporary lighting 590.4D	285	T 518.1 100
236	#26 AWG 650.6A	286	rigid metal conduit 501.130A3
237	125% 690.8A1	287	of the circuit 520.25B
238	reliable 695	288	DC 690
239	ungrounded 685.12	289	fuel 692

Back of the book - Answers

240	unintentional disconnection 625.9D	290	safe upper limit of travel 610
241	lighting 605	291	overcurrent device 630
242	.90 620.14table	292	15% 695.7
243	610.14A table	293	branch circuit 647.4D
244	common return 610.15	294	primary disconnecting means 692.54
245	stopping or retarding 620	295	flammable liquids 506
246	contact 530	296	junction 760.10
247	T 605.8D	297	.84 610.14E table
248	tidal fluctuation 682.2	298	theater 520.6
249	80% of ignition temperature of gas 501.130B1	299	250.30 692.41A
250	not damage cable 727.10	300	projection room 540.10

301	610.57 removable	351	665.21 deadfront
302	665.2 heating equipment applicator	352	660.47B oil resistant
303	625.29B 18 inches	353	590 receptacle
304	500.5 unclassified	354	675.15 lightning
305	502.10A1 MI	355	668.11B 2/0 AWG
306	513.10A2 shall not be	356	640.10A within 5 feet
307	502.10A1 rigid	357	669.3 identified
308	551.42C 5	358	503.145 sparks and molten particles
309	555.12 90%	359	500.2 fusion
310	500.5B2 confined	360	502.10A2 dusttight
311	514.11C 20 feet from the dispenser	361	630.33 switch
312	515 PVC schedule 80	362	685 three
313	514	363	553.7B LFMC LFNC
314	670 125%	364	620.91C each unit
315	555.19A4 30 amps	365	516 deposits
316	517.14 by #10AWG copper conductor	366	520.25A not more than 125%
317	517.18C listed tamper resistant	367	625.2 coupler
318	511 T	368	517.31 10 seconds
319	604.2 shall not be	369	518.1 100 or more
320	547.5 dust confinement area	370	552.4 seasonal
321	605.2 power for lighting	371	669.5 125%
322	540 hazardous gases	372	551 listed
323	660 F	373	605.4 two
324	501.10A2 flexible	374	700 approved

Back of the book - Answers

325	551 face up position	375	553.4 on
326	545 required	376	668.21D control and instrumentation
327	680.22A5 25 feet	377	551 2 feet
328	503 extra hard usage	378	727.6 22 through 12 AWG
329	547 corrosive vapors	379	690.64A supply side
330	668.2 electrolytic cell	380	695.4B and a listed fire pump controller
331	600.9A vehicular traffic	381	647.4B distribution panel
332	770.24 building structure	382	645.5 125%
333	501.10A1 threaded rigid metal conduit	383	501.125 deenergizes
334	820.44D 8 feet	384	625 4 feet
335	727.4 ITC	385	725.21B 600
336	555 masts	386	640.45 approved nonconductive materials
337	682	387	552.48K
338	550 120/240	388	515.8A under two or more
339	605.5B lighting accessories	389	720.4 #12
340	625 F	390	630.41 flame retardant
341	518 3-phase 4-wire	391	604 capped
342	630 manufacturer, frequency	392	502.10A1 threaded bosses
343	517 nonmetallic	393	504 grounded
344	830.44F 2.5 meters	394	647 shall be GFCI(protected
345	508D 3/4	395	604.6A1 manufactured wiring system
346	505 d	396	500.4 a person
347	501.140A4 electric mixers	397	605
348	504.4 is not required	398	550.32C 100
349	552 park trailer	399	551.56C #8
350	640 none	400	760.52B1 listed fittings or fire alarm device