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Answer: d15. While conducting short-circuit test on a transformer the following side is short circuited(a) High voltage side(b) Low voltage side(c) Primary side(d) Secondary sideAnswer: b16. In the transformer following winding has got more cross-sectional area (a) Low voltage winding(b) High voltage winding(c) Primary winding(d) Secondary windingAnswer: a17. The transformer core is constructed of magnetic material of frequency range: c18. The transformer core is made of magnetic material of frequency range: c19. Primary winding of a transformer is always (a) high voltage winding(b) low voltage winding(c) high voltage winding(d) low voltage windingAnswer: c20. Which winding in a transformer has more turns (a) Low voltage winding(b) High voltage winding(c) Primary winding(d) Secondary windingAnswer: b21. Efficiency of a power transformer is of the order of(a) 100 per cent(b) 98 per cent(c) 50 per cent(d) 25 per centAnswer: b22. In a transformer for given applied voltage, losses which remain constant irrespective of load changes are(a) friction and windage losses(b) copper losses(c) hysteresis and eddy current losses(d) none of the aboveAnswer: c23. A common method of cooling a power transformer is(a) natural air cooling(b) air blast cooling(c) oil cooling(d) any of the aboveAnswer: c24. The no load current in a transformer lags behind the applied voltage by an angle of about(a) 180(b) 120(c) 90(d) 75Answer: d25. In a transformer routine efficiency depends upon(a) supply frequency(b) load current(c) power factor of load(d) both (b) and (c)Answer: d26. In the transformer the function of a conservator is to(a) provide fresh air for cooling the transformer(b) supply cooling oil to transformer in time of need(c) protect the transformer from damage when oil expands due to heating(d) none of the aboveAnswer: c27. Natural oil cooling is used by transformers up to a rating of(a) 3000 kVA(b) 1000 kVA(c) 500 kVA(d) 250 kVAAnswer: a28. Power transformers are designed to have maximum efficiency at(a) nearly full load(b) 70% full load(c) 50% full load(d) no loadAnswer: a29. The maximum efficiency of a distribution transformer is(a) at no load(b) at 50% full load(c) at 80% full load(d) at full loadAnswer: b30. Transformer breathes in when(a) load on it increases(b) load on it decreases(c) load remains constant(d) none of the aboveAnswer: b31. No-load current of a transformer has(a) high magnitude and low power factor(b) high magnitude and high power factor(c) low magnitude and low power factor(d) low magnitude and high power factorAnswer: a32. The primary induced e.m.f. (e) will be the primary terminal voltage(d) none of the aboveAnswer: d33. The purpose of providing iron core in a step-up transformer is(a) to provide coupling between primary and secondary(b) to increase the magnitude of mutual flux(c) to decrease the magnitude of mag-netizing current(d) to provide all above featuresAnswer: c35. The power transformer is a constant(a) voltage device(b) current device(c) power device(d) main flux deviceAnswer: d36. Two transformers operating in parallel will share the load depending upon their(a) leakage reactance(b) per unit impedance(c) efficiencies(d) ratingsAnswer: b37. If R2 is the resistance of secondary winding of the transformer and K is the transformation ratio then the equivalent secondary resistance referred to primary will be(a) R2/KV(b) R2/K2(c) R2/2K2(d) R2/2KAnswer: b38. What will happen if the transformers working in parallel are not connected with regard to polarity? (a) The power factor of the two transformers will be different from the power factor of common load(b) Incorrect polarity will result in dead short circuit(c) The transformers will not share load in proportion to their kVA ratingsAnswer: b39. If the percentage impedances of the two transformers working in parallel are different, then(a) transformers will be overheated(b) power factors of both the transformers will be same(c) parallel operation will be not possible(d) parallel operation will still be possible, but the power factors at which the two transformers operate will be different from the power factor of the common loadAnswer: d40. In a transformer the tapplings are generally provided on(a) primary side(b) secondary side(c) low voltage side(d) high voltage sideAnswer: c41. The use of higher flux density in the transformer design(a) reduces weight per kVA(b) reduces iron losses(c) reduces copper losses(d) increases part load efficiencyAnswer: a42. The chemical used in breather for transformer should have the quality of(a) ionizing air(b) absorbing moisture(c) desiccant(d) none of the aboveAnswer: c43. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c44. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c45. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c46. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c47. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c48. Material used for construction of transformer core is usually(a) wood(b) copper(c) aluminum(d) silicon steelAnswer: d49. The thickness of laminations used in a transformer is usually(a) 0.4 mm to 0.5 mm(b) 4 mm to 5 mm(c) 14 mm to 15 mm(d) 25 mm to 40 mmAnswer: a50. The function of conservator in a transformer is(a) to project against intermetal fault(b) to reduce copper as well as core losses(c) to zero the volume of the expansion and contraction of transformer oil due to variation of temperature of sur-roundingsAnswer: d51. The highest voltage for transmitting electrical power in India is(a) 33 kV(b) 66 kV(c) 132 kV(d) 400 kVAnswer: d52. In a transformer the resistance between its primary and secondary is(a) zero(b) 1 ohm(c) 1000 ohms(d) infiniteAnswer: d53. A transformer oil must be free from(a) sludge(b) odour(c) gases(d) moistureAnswer: d54. A Buchholz relay can be installed on(a) auto-transformers(b) air-cooled transformers(c) welding transformers(d) oil cooled transformersAnswer: d55. Gas is usually not liberated due to dissociation of transformer oil unless the oil temperature exceeds(a) 50C(b) 80C(c) 100C(d) 150CAnswer: d56. The main reason for generation of harmonics in a transformer could be(a) fluctuating load(b) poor insulation(c) mechanical vibrations(d) saturation of coreAnswer: d57. Distribution transformers are generally designed for maximum efficiency around(a) 90% load(b) zero load(c) 25% load(d) 50% loadAnswer: b58. Which of the following property is not necessarily desirable in the material for transformer core? (a) Mechanical strength(b) Low hysteresis loss(c) High thermal conductivity(d) High permeabilityAnswer: a59. The transformer core is made of magnetic material of frequency range: c60. The transformer core is made of magnetic material of frequency range: c61. Buchholz relay gives warning and protection against(a) electrical fault inside the transformer itself(b) electrical fault outside the transformer in outgoing feeder(c) for both outside and inside faults(d) none of the aboveAnswer: a62. The magnetising current of a transformer is usually small because it has(a) small air gap(b) large leakage flux(c) laminated silicon steel core(d) fewer rotating partsAnswer: a63. Which of the following does not change in an ordinary transformer? (a) Frequency(b) Voltage(c) Current(d) Any of the aboveAnswer: a64. Which of the following properties is not necessarily desirable for the material for transformer core? (a) Low hysteresis loss(b) High permeability(c) High thermal conductivity(d) Adequate mechanical strengthAnswer: c65. The leakage flux in a transformer depends upon(a) load current(b) load current and voltage(c) load current, voltage and frequency(d) load current, voltage and frequencyAnswer: a66. The path of the magnetic flux in transformer should have(a) high reluctance(b) low reluctance(c) high resistance(d) low resistanceAnswer: b67. Noise level test in a transformer is (a) a special test(b) routine test(c) type test(d) none of the aboveAnswer: c68. Which of the following is not a routine test on transformers? (a) Core insulation voltage test(b) Impedance test(c) Radio interference test(d) Polarity testAnswer: c69. A transformer can have zero voltage regulation at(a) leading power factor(b) lagging power factor(c) unity power factor(d) zero power factorAnswer: a70. Helical coils can be used on(a) a low voltage side of high kVA transformers(b) high frequency transformers(c) high voltage side of small capacity transformers(d) high voltage side of high kVA rating transformersAnswer: a71. Harmonics in transformer result in(a) increased core losses(b) increased I2R losses(c) magnetic interference with communication circuits(d) all of the aboveAnswer: d72. The core used in high frequency transformer is usually(a) copper core(b) cast iron core(c) air core(d) mild steel coreAnswer: c73. The full-load temperature rise of a transformer is(a) 40C(b) 45C(c) 50C(d) 55CAnswer: d74. The function of breather in a transformer is(a) to provide oxygen inside the tank(b) to cool the oil and remove the moisture from it(c) to prevent the oil from becoming acidic(d) to prevent the oil from becoming oxidizedAnswer: d75. The size of a transformer core will depend on(a) frequency(b) area of the core(c) flux density of the core material(d) (a) and (b) bothAnswer: d100. Natural air cooling is generally restricted for transformers up to(a) 1.5 MVA(b) 5 MVA(c) 15 MVA(d) 50 MVAAnswer: a101. A shell-type transformer has(a) high eddy current losses(b) reduced magnetic leakage(c) negligibly hysteresis losses(d) none of the aboveAnswer: b102. A transformer can have regulation closer to zero(a) on full-load(b) on overload(c) on leading power factor(d) on zero power factorAnswer: c103. A transformer transforms(a) voltage(b) current(c) current and voltage(d) powerAnswer: d104. Which of the following is not the standard voltage for power supply in India? (a) 720 V(b) 11kV(b) 33kV(c) 66 kV(d) 122 kVAnswer: d105. Reduction in core losses and increase in permeability are obtained with transformer employing(a) core built-up of laminations of cold rolled grain oriented steel(b) core built-up of laminations of hot rolled sheet(c) either of the above(d) none of the aboveAnswer: a106. In a power or distribution transformer about 10 per cent end turns are heavily insulated(a) to withstand the high voltage drop due to line surge produced by the shunting capacitance of the end turns(b) to absorb the line surge voltage and save the winding of transformer from damage(c) to reflect the line surge and save the winding of a transformer from damage(d) none of the aboveAnswer: a107. For given applied voltage, with the increase in frequency of the applied voltage(a) eddy current loss will decrease(b) eddy current loss will increase(c) eddy current loss will remain unchanged(d) none of the aboveAnswer: c108. Losses which occur in rotating electrical machines are(a) copper losses(b) iron losses(c) friction and windage losses(d) all of the aboveAnswer: d109. The efficiency of a transformer is(a) 90% (b) 95% (c) 98% (d) 100%Answer: c110. Which of the following statements regarding a single phase transformer having a load ratio of 1:1 and a primary induced e.m.f. of 200 V is correct? (a) The secondary induced e.m.f. will be 200 V (b) The secondary induced e.m.f. will be 400 V (c) The secondary induced e.m.f. will be 100 V (d) The secondary induced e.m.f. will be 20 VAnswer: a111. The secondary of a current transformer is always short-circuited under operating conditions because it(a) avoids core saturation and high voltage induction(b) is safe to human beings(c) protects the primary circuit(d) none of the aboveAnswer: a112. In a transformer the resistance between its primary and secondary should be(a) zero(b) 10 Q(c) 1000 Q(d) infinityAnswer: d113. A good voltage regulation of a transformer means(a) output voltage fluctuation from no load to full load is least(b) output voltage fluctuation with power factor is least(c) difference between primary and secondary voltage is least(d) difference between primary and secondary voltage is maximumAnswer: a114. For a transformer, operating at constant load current, maximum efficiency will occur at(a) 0.8 leading power factor(b) 0.8 lagging power factor(c) zero power factor(d) unity power factorAnswer: d115. Which of the following protection is normally not provided on small distribution transformers? (a) Overfluxing protection(b) Buchholz relay(c) Overcurrent protection(d) All of the aboveAnswer: b116. Which of the following acts as a protection against high voltage surges due to lightning and switching? (a) Horn gaps(b) Thermal overload relays(c) Breather(d) ConservatorAnswer: a117. The efficiency of two identical transformers under load conditions can be determined by(a) short-circuit test(b) back-to-back test(c) open circuit test(d) any of the aboveAnswer: b118. Which of the following insulating materials can withstand the highest temperature safely? (a) Cellulose(b) Asbestos(c) Mica(d) Glass fibreAnswer: c119. Which of the following parts of a transformer is visible from outside? (a) Bushings(b) Core(c) Primary winding(d) Secondary windingAnswer: a120. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c121. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c122. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c123. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c124. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c125. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c126. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c127. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c128. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c129. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c130. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c131. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c132. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c133. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c134. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c135. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c136. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c137. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c138. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c139. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c140. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c141. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c142. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c143. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c144. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c145. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c146. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c147. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c148. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c149. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c150. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c151. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c152. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c153. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c154. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c155. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c156. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c157. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c158. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c159. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c160. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c161. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c162. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c163. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c164. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c165. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c166. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c167. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c168. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c169. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c170. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c171. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c172. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c173. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c174. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c175. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c176. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c177. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c178. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c179. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c180. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c181. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c182. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c183. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c184. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c185. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c186. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c187. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c188. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c189. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c190. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c191. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c192. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c193. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c194. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c195. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c196. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c197. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c198. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c199. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c200. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c201. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c202. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c203. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c204. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c205. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c206. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c207. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c208. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c209. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c210. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c211. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c212. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c213. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c214. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c215. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c216. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c217. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c218. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c219. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c220. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c221. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c222. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c223. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c224. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c225. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c226. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c227. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c228. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c229. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c230. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c231. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c232. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c233. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c234. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c235. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c236. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c237. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c238. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c239. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c240. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c241. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c242. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c243. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c244. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c245. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c246. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c247. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c248. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c249. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c250. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c251. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c252. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c253. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c254. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c255. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c256. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c257. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c258. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c259. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c260. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c261. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c262. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c263. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c264. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c265. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c266. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c267. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c268. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c269. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c270. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c271. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c272. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c273. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c274. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c275. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c276. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c277. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c278. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c279. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c280. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c281. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c282. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c283. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c284. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c285. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c286. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c287. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c288. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c289. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c290. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c291. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c292. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c293. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c294. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c295. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c296. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c297. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c298. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c299. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c300. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c301. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c302. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c303. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c304. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c305. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c306. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c307. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c308. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c309. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c310. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c311. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c312. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c313. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c314. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c315. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c316. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c317. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c318. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c319. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c320. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c321. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c322. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c323. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c324. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c325. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c326. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c327. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c328. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c329. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c330. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c331. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c332. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c333. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c334. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c335. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c336. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c337. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c338. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c339. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c340. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c341. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c342. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c343. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c344. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c345. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c346. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c347. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c348. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c349. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c350. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c351. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c352. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c353. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c354. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c355. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c356. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c357. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c358. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c359. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c360. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c361. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c362. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c363. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c364. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c365. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c366. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c367. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c368. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c369. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c370. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c371. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c372. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c373. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c374. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c375. The transformer oil is used for(a) insulation(b) cooling(c) both (a) and (b)(d) none of the aboveAnswer: c376. The transformer oil is used for(a)

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