

ENGINEERING ACADEMY DEHRADUN

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Prep By: R.K.RAMAN

**THDCIL
JUNIOR ENGINEER(ELECTRICAL)
SAMPLE PAPER-II**

1. The most commonly used generation voltage in India is
 - a) 11 kV
 - b) 6.6 kV
 - c) 2.2 kV
 - d) 33 kV
2. For a synchronous phase modifier, the load angle is
 - a) 0°
 - b) 25°
 - c) 30°
 - d) None of these
3. The skin effect does not depend on
 - a) A nature of material
 - b) Size of wire
 - c) Supply frequency
 - d) Ambient temperature
4. Which voltage determines the insulation strength of an EHV line?
 - a) switching over voltage
 - b) lightning over voltage
 - c) power frequency over voltage
 - d) none of these
5. The capacitance of a transmission line is a
 - a) series element
 - b) shunt element
 - c) neither series nor shunt element
 - d) none of these
6. For which shape of conductor the Corona loss will be least?
 - a) Circular
 - b) Oval
 - c) Flat
 - d) It is independent of shape of conductor
7. The factor which affects the Corona are
 - a) physical state of the atmosphere
 - b) physical conditions of the line conductors
 - c) physical state of atmosphere and physical condition of the line conductors
 - d) None of these
8. In the ring main distribution system, the distributor is fed
 - a) by one feeder
 - b) by two feeders
 - c) at different points
 - d) by four feeders
9. ACSR stands for
 - a) All Copper Standard Reinforced
 - b) Aluminium Conductors Steel Reinforced
 - c) Aluminium Copper Steel Reinforced
 - d) All Copper Steel Reinforced Conductors
10. Sag of conductors between two poles can be determined by
 - a) $\frac{WL^2}{T}$
 - b) $\frac{WL^2}{2T}$
 - c) $\frac{WL^2}{8T}$
 - d) $\frac{WL^2}{16T}$

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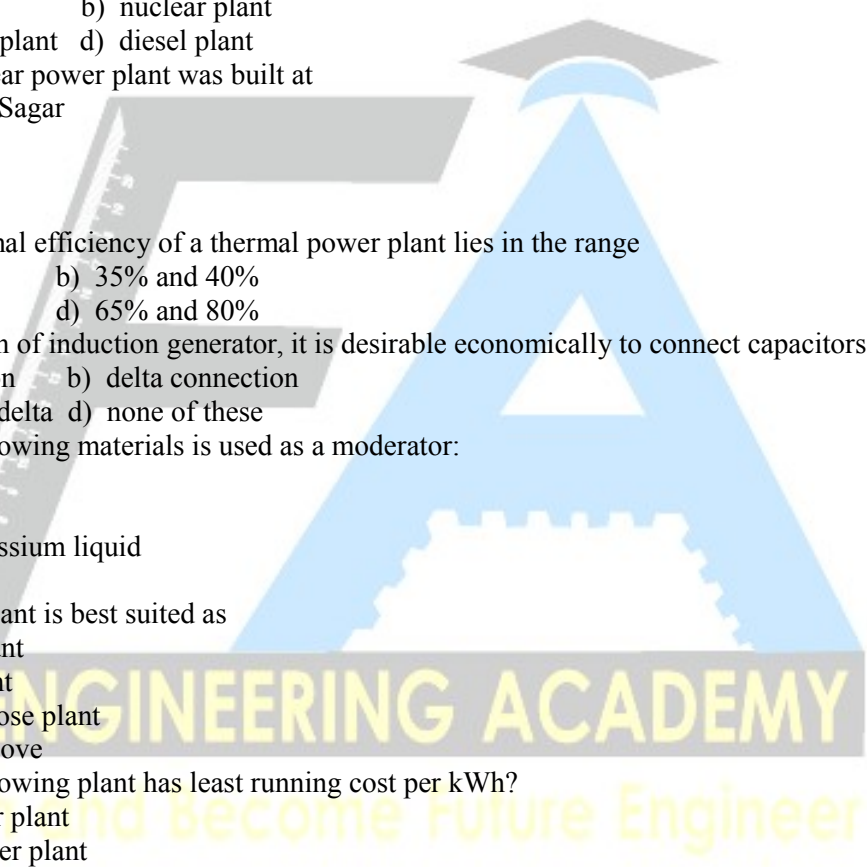
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where W = Weight per unit length of conductor in kg/m.

L = Distance between the two poles

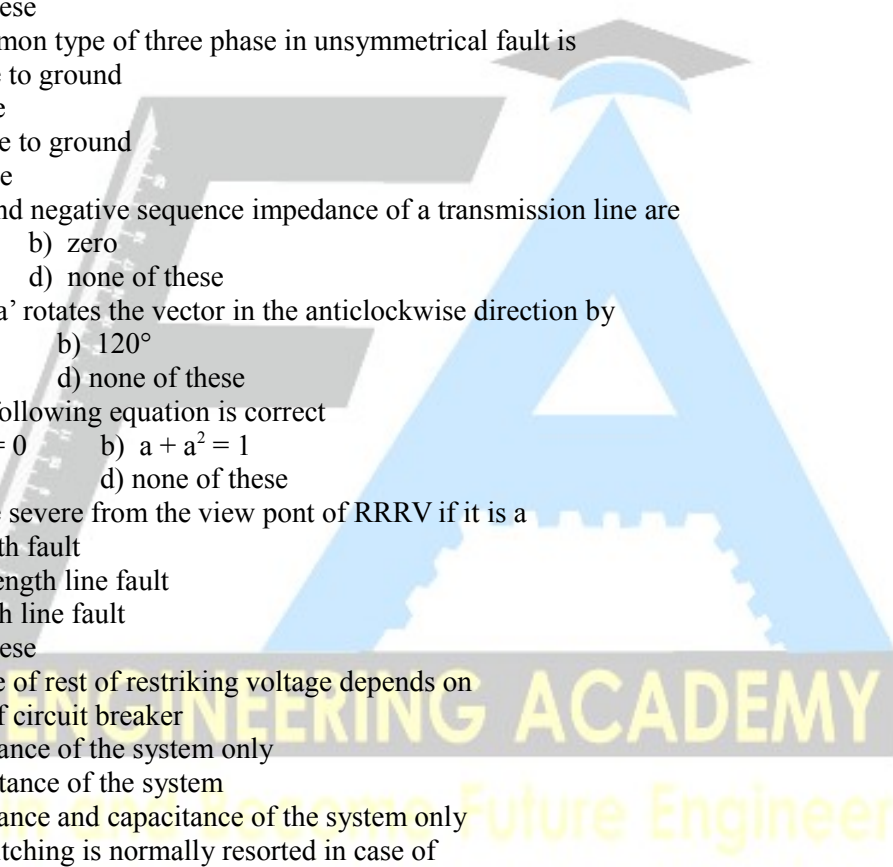
T = Tension in conductor in kg-m

11. Transmitting power at high voltage requires more
 - a) maintenance and protection of the equipment
 - b) faster control for minimising the arcing contacts
 - c) larger controls for minimising the arcing contacts
 - d) all of these
 12. In India, the first tidal power plant is likely to come up in
 - a) Bay of Bengal
 - b) Korba
 - c) Singrauli
 - d) Gulf of Kutch
 13. The cost of fuel transportation is minimum in
 - a) thermal plant
 - b) nuclear plant
 - c) hydroelectric plant
 - d) diesel plant
 14. India's first nuclear power plant was built at
 - a) Rana Pratap Sagar
 - b) Trombay
 - c) Tarapur
 - d) Kalpakkam
 15. The overall thermal efficiency of a thermal power plant lies in the range
 - a) 25% to 30%
 - b) 35% and 40%
 - c) 45% to 60%
 - d) 65% and 80%
 16. For self excitation of induction generator, it is desirable economically to connect capacitors in
 - a) star connection
 - b) delta connection
 - c) both star and delta
 - d) none of these
 17. Which of the following materials is used as a moderator:
 - a) Graphite
 - b) Boron
 - c) Sodium potassium liquid
 - d) Plutonium
 18. A diesel power plant is best suited as
 - a) base load plant
 - b) stand by plant
 - c) general purpose plant
 - d) any of the above
 19. Which of the following plant has least running cost per kWh?
 - a) Diesel power plant
 - b) Nuclear power plant
 - c) Thermal power plant
 - d) Hydro-electric plant
 20. The most common type of fault on the overhead transmission line is
 - a) single line to ground fault
 - b) double into to ground fault
 - c) three-phase fault
 - d) line to line fault
 21. If the percentage reactance of the system upto the fault point is 20% and the base kVA is 10,000 then the short circuit kVA is
 - a) 10 MVA
 - b) 20 MVA
 - c) 50 MVA
 - d) 60 MVA
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22. Reactance are used at various points in the power system to
 - a) limit short circuit current
 - b) increase short circuit current
 - c) avoid short circuit
 - d) none of these
 23. HRC fuse provide best protection against
 - a) open circuits
 - b) short-circuits
 - c) over load
 - d) reverse current
 24. The size of the earth wire is determined by
 - a) the ampere capacity of the service wires
 - b) the atmosphere conditions
 - c) the voltage of the service wires
 - d) none of these
 25. The most common type of three phase in unsymmetrical fault is
 - a) single line to ground
 - b) line to line
 - c) double line to ground
 - d) three phase
 26. The positive and negative sequence impedance of a transmission line are
 - a) equal
 - b) zero
 - c) different
 - d) none of these
 27. The operator 'a' rotates the vector in the anticlockwise direction by
 - a) 90°
 - b) 120°
 - c) 180°
 - d) none of these
 28. Which of the following equation is correct
 - a) $1 + a + a^2 = 0$
 - b) $a + a^2 = 1$
 - c) $1 + a^3 = 0$
 - d) none of these
 29. A fault is more severe from the view pont of RRRV if it is a
 - a) short length fault
 - b) medium length line fault
 - c) long length line fault
 - d) none of these
 30. The rate of rise of rest of restriking voltage depends on
 - a) the type of circuit breaker
 - b) the inductance of the system only
 - c) the capacitance of the system
 - d) the inductance and capacitance of the system only
 31. Resistance switching is normally resorted in case of
 - a) Air blast CB
 - b) Bulk oil CB
 - c) Minimum oil CB
 - d) All types of CBs
 32. Current chopping mainly occurs in
 - a) oil circuit breaker
 - b) air blast circuit breaker
 - c) vacuum circuit breaker
 - d) SF_6 circuit breaker
 33. Capacitive current breaking results in
 - a) short circuits
 - b) open circuits
 - c) voltage surges
 - d) none of these
 34. Impedance relay can be used for
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- a) earth faulty
b) phase fault only
c) both earth and phase faults
d) none of these
35. To protect the power transformer with star delta connection against fault, the current transformer secondaries will have
a) delta-delta connection
b) delta-star connection
c) star-star connection
d) star-delta connection
36. If the fault occurs near an impedance relay, the V/I ratio will be
a) constant for all distance
b) higher than the value if the fault occurs away from the relay
c) lower than the value if the fault occurs away from the relay
d) none of these
37. A Mho relay is a:
a) voltage restrained directional relay
b) voltage controlled over current relay
c) directional restrained over current relay
d) directional restrained over voltage relay
38. The Buchholtz relay protects a transformer from:
a) a turn to turn fault
b) all types of internal faults
c) winding to winding faults
d) none of these
39. Differential relays are used to protect the equipment against
a) internal faults b) reverse current
c) over current d) none of these
40. For stability and economic reasons, we operate the transmission line with power angle in the range
a) 10° to 25° b) 30° to 45°
c) 60° to 75° d) 65° to 80°
41. Power can be transferred only if reactance is
a) absent b) present
c) zero d) none of these
42. Rated making capacity of breaker is equal to
 $\sqrt{2} \times$
a) rated symmetrical breaking capacity
 $2.55 \times$
b) rated symmetrical breaking capacity
 $1 \times$
c) rated symmetrical breaking capacity
d) none of these
43. In load-flow study of a power system, what are the quantities specified at a load bus?
 $|P|$ $|V|$ P V
a) and b) and
 P Q P δ
c) and d) and
44. For transformer protection a differential relay is based to avoid mal-operations due to
a) inrush current
b) saturation of current transformers

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- c) mismatching of current ratio of current transformers
 - d) current setting multipliers
45. Reactance relay is used to protect against
- a) Earth faults only
 - b) Phase faults only
 - c) Over voltage fault
 - d) None of these
46. The impulse ratio of a rod gap is
- a) 0 to 1.0 b) 1.2 to 1.5
 - c) 1.6 to 1.8 d) 2 to 2.2
47. Shunt compensation in an EHV line is used to improve
- a) stability b) fault level
 - c) voltage profile d) all of these
48. Load flow study is used for
- a) fault calculations
 - b) stability studies
 - c) system planning
 - d) all of the above
49. The energy in a lightning stroke can be as high as
- a) 10 Unit b) 100 Units
 - c) 250 Units d) 1000 Units
50. Surge impedance of an overhead line is of the order of
- a) tens b) ones
 - c) hundreds d) thousands
51. The function of Lightning arrester is
- a) To limiting the short-circuit fault current
 - b) To provide path to high voltage surge to earth
 - c) To reduce arcing
 - d) None of these
52. Distance relays operation is dependent upon
- a) ratio of current to current
 - b) ratio of voltage to current
 - c) ratio of voltage to voltage
 - d) none of these
53. The lightning arrester is connected
- a) in series with the line
 - b) between line and earth
 - c) to a pole near the line
 - d) none of these
54. In Van de Graff generator, output voltage is controlled by
- a) controlling the corona source voltage
 - b) controlling the belt speed
 - c) controlling the lower spray point
 - d) all of these
55. Dielectric strength of mica is more than
- a) 500 kV/mm
 - b) 1500 kV/mm
 - c) 2500 kV/mm
 - d) 300 kV/mm

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56. Which of the following is a polar dielectric?
a) Teflon b) PVC
c) Nylon d) Polyethylene
57. Which of the following is preferred for automatic drives?
a) Synchronous motors
b) Squirrel cage induction motor
c) Ward-Leonard Controlled d.c. motors
d) Any of these
58. A motor normally used for crane is
a) Slip ring induction motor
b) Ward Leonard Controlled D.C. shunt motor
c) Synchronous motor
d) D.C. differentially compound motor
59. When quick speed reversal is a consideration the motor preferred is
a) synchronous motor
b) squirrel cage induction motor
c) wound rotor induction motor
d) d.c. motor
60. The advantage of synchronous motor in addition to its constant speed is
a) high power factor
b) better efficiency
c) lower cost
d) all of these
61. Light duty cranes are generally used in
a) automobile workshops
b) pumping stations
c) power houses
d) all of these
62. Which motors, because of their inherent characteristics, are best suited for the rolling mills?
a) D.C. motors
b) Slip ring induction motors
c) Squirrel cage induction motors
d) Single-phase motors
63. Power factor in case of reluctance motor is
a) nearly unity b) always leading
c) 0.8 lagging d) 0.3 to 0.4 leading
64. The efficiency of reluctance motor is around
a) 95% b) 80%
c) 75 to 85% d) 60 to 75%
65. The size of an excavator is usually expressed in terms of
a) cubic meters b) angle of swing
c) travel in meters d) crowd motions
66. When anode is positive with respect to cathode in an SCR, the number of blocked p – n junctions is/are
a) 1 b) 2
c) 4 d) none of these
67. In a thyristor, anode current is made up of
a) electrons only b) holes only
c) electron and holes d) none of these

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68. In a thyristor, holding current is
- more than latching current I_L
 - less than latching current
 - equal to latching current
 - very small
69. In a thyristor
- latching current I_L is associated with turn-off process and holding current I_H with turn-on process
 - both I_L and I_H are associated with turn-on process
 - I_H is associated with turn-off process and I_L with turn-on process
 - both I_L and I_H are associated with turn-on process
70. For an SCR, dv/dt protection is achieved through the use of
- RL in series with SCR
 - RC across SCR
 - L in series with SCR
 - None of these
71. For an SCR, di/dt protection is achieved through the use of
- R in series with SCR
 - RL in series with SCR
 - L in series with SCR
 - None of these
72. An SCR is a
- three-layer three terminal device
 - three-layer four terminal device
 - four layer three terminal device
 - none of these
73. Which of the following PNP devices has two gates?
- triac
 - SCS
 - SUS
 - Diac
74. In single-pulse modulation of PWM inverters, fifth harmonic can be eliminated if pulse width is equal to
- 30°
 - 72°
 - 36°
 - 108°
75. In dc choppers, if T_{on} is the on-period and f is the chopping frequency, then output voltage in terms of input voltage V_s is given by:
- $V_s \cdot T_{on} / f$
 - $V_s \cdot f / T_{on}$
 - $V_s / f \cdot T_{on}$
 - $V_s \cdot f \cdot T_{on}$
76. In dc choppers, the waveforms for input and output voltages are respectively
- discontinuous, continuous
 - both continuous
 - both discontinuous
 - continuous, discontinuous
77. Which fault gives rise to symmetrical fault currents?
- Single line to ground fault
 - Line to line fault
 - Double line to ground fault
 - Three phase fault
78. Ground wire is used to
- give the support to the tower

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- b) to connect the circuit conductor or other device to an earth-plate
 - c) to avoid overloading
 - d) to give good regulation
79. In a balanced three phase system, negative and zero phase sequence currents are
- a) equal b) zero
 - c) different d) none of these
80. The zero sequence impedance of different elements of power system is generally
- a) equal b) zero
 - c) different d) none of these
81. The positive sequence component of voltage at the point of fault is zero when it is a
- a) three phase fault
 - b) L-L-G fault
 - c) L-L fault
 - d) L-G fault
82. When a fault occurs on the system a circuit breaker
- a) opens automatically
 - b) closes automatically
 - c) opens manually
 - d) none of these
83. For the interruption of high voltages and low current, the circuit breaker (CB) preferred is
- a) Air blast CB b) Oil CB
 - c) Vacuum CB d) All are correct
84. The normal practice to specify the making current of a circuit breaker in terms of
- a) r.m.s value b) peak value
 - c) average value d) none of these
85. Current transformers for relays and meters usually have
- a) 5 amp secondary b) 10 amp secondary
 - c) 20 amp secondary d) none of these
86. The least expensive protection for over-current in LV system is
- a) isolator
 - b) oil circuit breaker
 - c) rewirable fuse
 - d) air break CB
87. In Mertz Price protection, the CTs secondaries of delta-star power transformer will be in
- a) star delta b) star-star
 - c) delta-star d) delta-delta
88. Transient stability can be improved by
- a) Increasing the system voltage
 - b) Decreasing the system voltage
 - c) Keeping the system voltage constant
 - d) None of these
89. The relay with inverse time characteristic will operate within
- a) 5 sec b) 5 to 10 sec
 - c) 10 to 15 sec d) 15 to 20 sec
90. Mho relay is used to protect
- a) Long transmission lines
 - b) Medium length lines
 - c) Short length lines
 - d) All of the above

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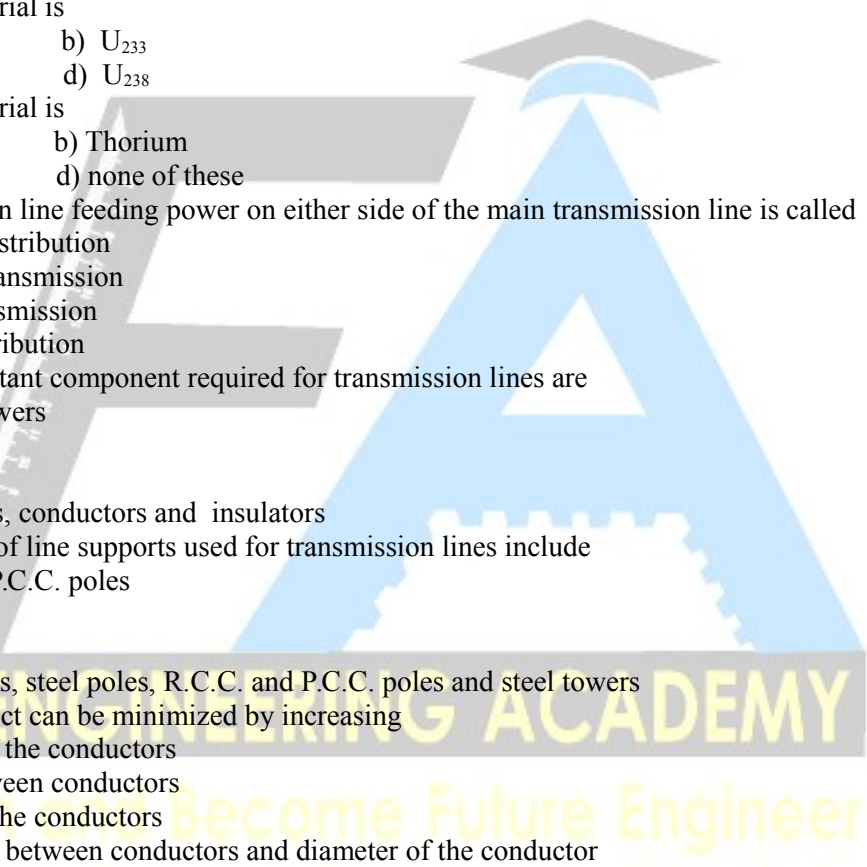
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91. The rate of rise of restriking voltage depends upon
 - a) the type of Circuit Breaker
 - b) the inductance of the system only
 - c) the capacitance of the system only
 - d) the inductance and capacitance of the system
92. Resistance switching is used in
 - a) bulk oil circuit breakers
 - b) minimum oil circuit breakers
 - c) air-blast circuit breakers
 - d) all types of breakers
93. The making current of a circuit breaker is specified in terms of
 - a) rms value b) peak value
 - c) average value d) either of these
94. From the view-point of RRRV, a fault is more serious if it is a
 - a) short-length line fault
 - b) medium length line fault
 - c) long line fault
 - d) any of these
95. In what shape of the conductor, corona loss is less?
 - a) Circular b) Flat
 - c) Oval d) Any of these
96. Merze-Price protection is used to protect
 - a) Transmission line and transformers
 - b) Motor only
 - c) Transformers and generators
 - d) Transformers only
97. The primary function of a fuse is to
 - a) protect the appliance
 - b) open the circuit
 - c) prevent excessive currents
 - d) protect the line
98. A thermal protection switch is able to protect against
 - a) overload b) over voltage
 - c) temperature d) short circuit
99. Relays using induction disc principle operate
 - a) only on DC b) only on AC
 - c) either on DC and AC d) none of these
100. Which relay is used to detect and protect internal faults of transformer?
 - a) Buchholz relay
 - b) Directional relay
 - c) Thermal relay
 - d) Distance relay
101. Merz-Price Current protection is also called
 - a) under-voltage protection
 - b) over-current protection
 - c) differential protection
 - d) distance protection
102. The variety of paper used for insulation purpose is
 - a) blotting paper b) rice paper

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- c) craft paper d) none of these
103. Which of the following plants have the minimum running cost
- a) Nuclear power plant
 - b) Diesel plant
 - c) Thermal power plant
 - d) Hydro power plant
104. The oldest geothermal power plant is in
- a) France b) Germany
 - c) Italy d) U.S.A.
105. Economizers are used to heat
- a) air b) steam
 - c) feed water d) none of these
106. The fertile material is
- a) U_{235} b) U_{233}
 - c) Plutonium d) U_{238}
107. The fissile material is
- a) U_{232} b) Thorium
 - c) Plutonium d) none of these
108. The transmission line feeding power on either side of the main transmission line is called
- a) secondary distribution
 - b) secondary transmission
 - c) primary transmission
 - d) primary distribution
109. The most important component required for transmission lines are
- a) poles and towers
 - b) conductors
 - c) insulators
 - d) poles, towers, conductors and insulators
110. Different types of line supports used for transmission lines include
- a) R.C.C. and P.C.C. poles
 - b) steel towers
 - c) steel poles
 - d) wooden poles, steel poles, R.C.C. and P.C.C. poles and steel towers
111. The Corona effect can be minimized by increasing
- a) the length of the conductors
 - b) spacing between conductors
 - c) diameter of the conductors
 - d) both spacing between conductors and diameter of the conductor
112. Wooden poles can be used for a span of maximum upto
- a) 100 meters b) 160 meters
 - c) 300 meters d) 200 meters
113. Wooden poles can be used upto voltage of
- a) 11 kV b) 33 kV
 - c) 66 kV d) 20 kV
114. The regulation of transmission line is
- a) the change in sending end voltage and receiving end voltage
 - b) the percentage change in voltage at the sending end when full load is thrown off
 - c) the percentage change in voltage at the receiving end when full load is thrown off, the conditions at sending end remaining
- 

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- d) the percentage change in voltage at the receiving end when full load is not thrown off
115. The underground cable system for 11 kV can work upto a length of
a) 50 miles b) 75 miles
c) 100 miles d) 400 miles
116. In case of overhead lines, due to presence of earth
a) capacitance decreases
b) inductance decreases
c) capacitance increases
d) inductance increases
117. If the p.f. of load decreases, the line losses
a) increases b) decreases
c) remain constant d) none of these
118. The charging current in the transmission line
a) lags the voltage by 90°
b) leads the voltage by 45°
c) leads the voltage by 90°
d) leads the voltage by 180°
119. Phase modifier normally installed in the case of
a) Short transmission line
b) Medium length line
c) Long length lines
d) For all length lines
120. Ferranti effect on long overhead lines is experienced when it is
a) lightly loaded
b) on full load at u.p.f.
c) on full load at 0.8 p.f. lag
d) in all these cases
121. A's salary is 35% of that of B's salary. B's salary is 40% of that of C's salary. If their total salary is Rs. 19,250, the difference between A's and B's salaries is
(a) Rs. 3,250 (b) Rs. 3,500
(c) Rs. 325 (d) Rs. 7,500
122. Kundan purchased 16 kg. wheat at Rs. 9.40/kg. and 25 kg. wheat at Rs. 8.50/kg. He sold the mixture of both varieties at Rs. 8.95/kg. What is the gain or loss?
(a) profit of Rs. 4.05 (b) No profit no loss
(c) Profit of Rs. 5.00 (d) Loss of Rs. 7.50
123. What is the greatest number that will exactly divide 48, 168, 324 and 1400?
a) 14 b) 4 c) 16 d) 8
124. Sonu spent 15% of his income on clothes, 30% on food, and 10% on transport. If he has left with Rs. 900 what is his income?
(a) Rs. 1,500 (b) Rs. 2,000
(c) Rs. 1,635 (d) Rs. 1,000
125. Population of a village decreases annually by 20%. If its population 2 years ago was 10,000, what will be its present population?
(a) 6,000 (b) 1000/144
(c) 6,400 (d) 7,600
126. A man spends 15% of his income in board and lodging, 10% of the remainder in other personal necessities and 5% of the rest in charity. If his income is Rs. 20000, find the amount left by him at the end.

(a)Rs.14535

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(b)Rs.14353
(c)Rs.14533

(d) Rs. 15435

127. 15 men work 8 hours daily to complete a work in 21 days. In how many days will 14 men complete the work by working 6 hours daily?

(a) 21 (b) 27 (c) 28 (d) 30

128. A large blood vessel that carries blood away from the heart is called

(a) a vein (b) an artery
(c) a capillary (d) nerve

129. Which of the following is an air-borne disease?

(a) Measles (b) Pink eye
(c) Typhoid (d) Tuberculosis

130. Har gobind Khoran's work relates to

(a) synthesis of simple DNA
(b) understanding the genetic code
(c) reduction of mutation
(d) synthesis of RNA from bacterial cell

131. SEBI is a

(a) statutory body
(b) advisory body
(c) constitutional body
(d) non-statutory body

132. Which of the following is not part of World Bank Group?

(a) IBRD (b) IFC
(c) IDA (d) ACB

133. Mohiniattam is folk dance of

(a) Tamil Naidu (b) Andhra Pradesh
(c) Kerala (d) Karnataka

134. Spherical shape of rain droplet is due to

(a) cohesion (b) surface tension
(c) adhesion (d) capillary action

135. What is the greatest number that will divide 29, 60 and 103 and will leave as remainders 5, 12 and 7 respectively?

a) 24 b) 16 c) 12 d) 14

136. A certain distance is covered by a vehicle at a certain speed. If half of this distance is covered by another vehicle in double the time, the ratio of the speeds of the two vehicles is

(a) 1 : 4 (b) 1 : 2
(c) 2 : 1 (d) 4 : 1

137. The average age of students in section A of 50 students is 14 years and the average age of students in section B of 30 students is 6 years. Find the average age of students in both sections taken together.

(a) 11 (b) 13
(c) 12 (d) 14

138. The ratio of lengths of two trains is 5 : 3 and the ratio of their speeds is 6 : 5. The ratio of times taken by them to cross a pole is

(a) 5 : 6 (b) 11 : 8
(c) 25 : 18 (d) 27 : 16

139. The price of sugar is increased by 20%. As a result, a family has decreased its consumption by 20%. The expenditure of the family on sugar is decreased by

(a) 0 % (b) 2.5%

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- (c) 4% (d) 5%
140. The ratio of the present ages of Rahul and Rashmi is 2 : 1. The ratio of their ages after 30 years will be 7 : 6. What is the present age of Rahul?
- (a) 6 years (b) 10 years
(c) 12 years (d) 20 years
141. The price of sugar is increased by 20%. If the expenditure on sugar has to be kept the same as earlier, the ratio between the reduction in consumption and the original consumption is
- (a) 1 : 3 (b) 1 : 4
(c) 1 : 6 (d) 1 : 5
142. A, B and C can complete a work in 10, 12 and 15 days respectively. They started the work together. But A left the work before 5 days of its completion. B also left the work 2 days after A left. In how many days was the work completed?
- (a) 4
(b) 5
(c) 7
(d) 8
143. A fan is listed at Rs. 1,400 and the discount offered is 10%. What additional discount must be given to bring the net selling price to Rs. 1,200?
- (a) $16\frac{2}{3}\%$
(b) 5%
(c) $4\frac{16}{21}\%$
(d) 6%
144. The contents of two vessels containing water and milk are in the ratio 3 : 4 and 5 : 4 are mixed in the ratio 1 : 4. The resulting mixture will have water and milk in the ratio _____.
- (a) 184 : 176
(b) 167 : 184
(c) 167 : 148
(d) 148 : 167
145. A man goes from A to B at a uniform speed of 12 kmph and returns with a uniform speed of 4 kmph. His average speed (in kmph) for the whole journey is
- (a) 8
(b) 7.5
(c) 6
(d) 4.5
146. What number should be subtracted from both terms of the ratio 15 : 19 in order to make it 3 : 4?
- (a) 9
(b) 6
(c) 5
(d) 3
147. A reduction of 20% in the price of oranges enables a man to buy 5 oranges more for Rs. 10/-. The price of an orange before reduction was:
- (a) 20 paise
(b) 40 paise
(c) 50 paise
(d) 60 paise
148. In an examination, a student who gets 20% of the maximum marks fails by 5 marks. Another student who scores 30% of the maximum marks gets 20 marks more than the pass marks. The necessary percentage required for passing is :

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- (a) 32%
- (b) 23%
- (c) 22%
- (d) 20%

149. A bag contains rupee, 50-paise and 25-paise coins in the ratio 3 : 4 : 5. If the total amount in the bag is Rs. 625, find the no. of coins of 25-paise.

- (a) 125
- (b) 1250
- (c) 500
- (d) 1000

150. If 3 men or 6 women can do a piece of work in 16 days. in how many days can 12 men and 8 women do the same piece of work?

- (a) 4 days
- (b) 5 days
- (c) 3 days
- (d) 2 days

151. Which of the following is busiest airport of India?

- (a) Delhi
- (b) Mumbai
- (c) Bengaluru
- (d) Chennai

152. The name 'Xerox', was basically the name of

- (a) person
- (b) company
- (c) city
- (d) none of these

153 The largest number of Buddhists is found in

- (a) Bihar
- (b) Karnataka
- (c) Maharashtra
- (d) UP

154. Ghatotkach was the son of

- (a) Duryodhana
- (b) Arjuna
- (c) Yudhisthira
- (d) Bhima

155. Which of the following is not a member of SAARC?

- (a) Bhutan
- (b) Bangladesh
- (c) Burma
- (d) Maldives

156. India's first indigenously built sub-marine is

- (a) INS Shahkul
- (b) INS Savitri
- (c) INS Vibhuti
- (d) INS Shalki

157. The first recipient of the Dada Saheb Phalke Award was

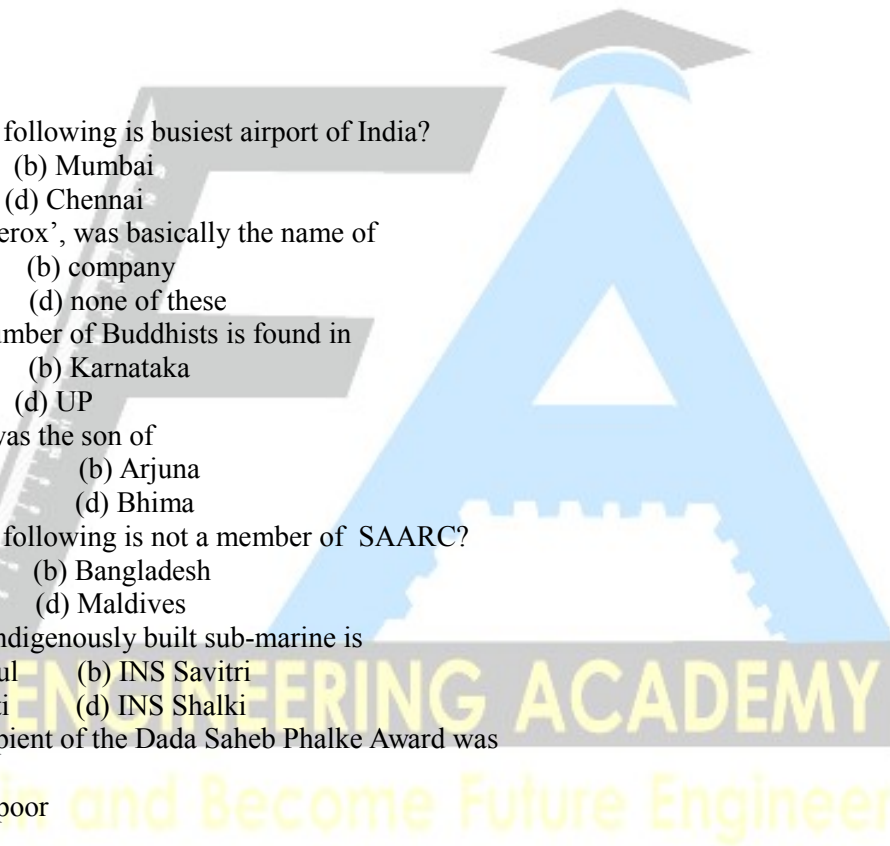
- (a) B. N. Sarkar
- (b) Prithvi Raj Kapoor
- (c) Devika Rani
- (d) Kanan Devi

158. On what sum does the difference between the compound interest and the simple interest for 3 years at 10% is Rs. 31 ?

- (a) Rs. 1500
- (b) Rs. 1200
- (c) Rs. 1100
- (d) Rs. 1000

159. At what percent per annum will Rs. 3000/- amount to Rs. 3993 in 3 years if the interest is compounded annually?

- (a) 9%
- (b) 10%
- (c) 11%
- (d) 13%



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160. The population of a town is 8000. If the males increase by 6% and the females by 10%, the population will be 8600. Find the number of females in the town.

- (a) 5000 (b) 2000
(c) 3000 (d) 1500

| Electrical THDC Sample Paper –II | | | |
|---|-------|--------|--------|
| Answers Key | | | |
| 1. a | 51. b | 101. c | 151. a |
| 2. a | 52. b | 102. c | 152. b |
| 3. d | 53. b | 103. d | 153. c |
| 4. b | 54. a | 104. c | 154. d |
| 5. b | 55. a | 105. c | 155. c |
| 6. a | 56. c | 106. d | 156. d |
| 7. b | 57. c | 107. c | 157. c |
| 8. b | 58. a | 108. b | 158. d |
| 9. b | 59. d | 109. d | 159. b |
| 10. c | 60. a | 110. d | 160. c |
| 11. d | 61. d | 111. d | |
| 12. d | 62. a | 112. b | |
| 13. c | 63. d | 113. d | |
| 14. c | 64. d | 114. c | |
| 15. a | 65. a | 115. c | |
| 16. b | 66. a | 116. b | |
| 17. a | 67. c | 117. a | |
| 18. b | 68. b | 118. c | |
| 19. d | 69. c | 119. c | |
| 20. a | 70. b | 120. a | |
| 21. c | 71. c | 121. a | |
| 22. a | 72. c | 122. a | |
| 23. b | 73. b | 123. b | |
| 24. a | 74. b | 124. b | |
| 25. a | 75. d | 125. c | |
| 26. a | 76. d | 126. a | |
| 27. b | 77. d | 127. d | |
| 28. a | 78. b | 128. b | |
| 29. a | 79. b | 129. a | |

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| | | | |
|-------|--------|--------|--|
| 30. d | 80. c | 130. b | |
| 31. a | 81. a | 131. a | |
| 32. b | 82. a | 132. d | |
| 33. c | 83. c | 133. c | |
| 34. c | 84. b | 134. b | |
| 35. b | 85. a | 135. a | |
| 36. c | 86. c | 136. d | |
| 37. a | 87. a | 137. a | |
| 38. b | 88. a | 138. c | |
| 39. a | 89. c | 139. c | |
| 40. b | 90. a | 140. c | |
| 41. b | 91. d | 141. c | |
| 42. b | 92. c | 142. c | |
| 43. c | 93. b | 143. c | |
| 44. c | 94. a | 144. c | |
| 45. a | 95. a | 145. c | |
| 46. b | 96. c | 146. d | |
| 47. c | 97. c | 147. c | |
| 48. c | 98. a | 148. c | |
| 49. c | 99. b | 149. c | |
| 50. c | 100. a | 150. c | |

