

Objective Question and Answer**Set- E (English)**

1. How much voltage we get on secondary side of AT?
a) 25v b) 250v c) 240v d) 25kv
2. The oil used in AT should have minimum B.D.V?
a) 40kv b) 25kv c) 60kv d) 132kv
3. Whether primary terminal of AT is earthed?
a) No b) Yes c) SHORTED d) None of the above
4. The interval for AT POH is ?
a) 7 Yrs b) 10 Yrs c) 5 Yrs d) Every year
5. What is the rating of megger which is used for meggering LV - E in AT?
a) 5kv b) 2.5kv c) 500v d) 2000v
6. What is the minimum IR value for HV - LV in AT?
a) 100Mohm b) 200 Mohm c) 500Mohm d) 250Mohm
7. What is the ampere rating of DO fuse?
a) 1 Amp b) 0.1 Amp c) 0.5 Amp d) 32 Amp]
8. Name the tool which is used for operating D.O. fuse?
a) Discharge rod b) By hand
c) By any wooden stick d) By operating rod
9. What is the output voltage of 500V megger?
a) 500V DC b) 500V AC c) 250 DC d) 250V AC
10. At what speed the handle of hand operated megger is rotated?
a) 160RPM b) 140 RPM c) 150 RPM d) 120RPM
11. What is dimmerstat?
a) Autotransformer b) Transformer
c) Step up transformer d) None of the above
12. Which instrument is used for measuring P.F.?
a) P.F. meter b) Tong tester
c) Capacitance meter d) Tan delta kit
13. What is HSV for CB connected on 132kv side ?
a) 145kv b) 132kv
c) 150kv d) 160kv
14. What is HSV for CB connected on 25kv side?
a) 25kv b) 44kv c) 52kv d) 50kv
15. Oil used in MOCB is governed by IS?
a) 335 b) 12463 c) 166 d) 2046
16. SF6 stands for ?
a) Sulphur Hexafluoride b) Sulphur fluoride
c) Sulphur fluorine d) None of the above
17. With the help of microohm meter which thing is measured?
a) Low resistance b) High resistance
c) Current d) Voltage
18. What is the kit used for measuring Tan - delta ?
a) Tan delta test kit b) P. F. meter
c) Capacitance meter d) Voltmeter
19. Tripping time of SF6 CB?
a) 43ms b) 60ms c) 100ms d) 200ms

20. Closing time of SF6 CB?
- a) 100ms b) 200ms c) 60ms d) 43ms
21. At what interval POH of SF6 CB is conducted?
- a) 10yrs b) 6yrs c) 8 yrs d) 5yrs
22. What is the breaking current capacity of SF6 CB?
- a) 20KA b) 30KA c) 50KA d) 100KA
23. What is the closing time for vacuum breaker?
- a) 100ms< b) 140ms< c) 200ms< d) 500ms<
24. What is the tripping time for vacuum breaker?
- a) 60ms< b) 200ms< c) 150ms< d) 1000ms<
25. Which type of cooling are used in transformer
- a) ONAN b) ONAF c) ONAN & ONAF d) NIL
26. Which type of insulation is used in transformer
- a) Class – B b) Class - H c) Class - A d) Class - Y
27. What is the approx % impedance of 10 KVA AT
- a) 10 b) 12 c) 5 d) 4
28. What is the voltage ratio of Type- 1 PT
- a) 25000/110 b) 25000/100 c) 25000/230 d) 25000/10
29. Which class of insulation used in transformer
- a) Y b) A c) E d) B
30. What is the voltage ratio of type - 1 PT
- a) 25000/110 b) 25000/100 c) 25000/10 d) NIL
31. What is the burden of type - 1 PT in VA
- a) 20 b) 100 c) 30 d) 110
32. What is the burden of PT type- 2 in VA
- a) 10 b) 50 c) 100 d) 110
33. What is the permissible ratio error in type - 1 PT in %
- a) 1 b) 0.5 c) 2 d) 5
34. What is the ratio error in type - 2 PT in %
- a) 0.6 b) 0.1 c) 0.5 d) 1
35. What is the phase angle error in type-1 PT in min
- a) 10 b) 20 c) 15 d) 5
36. What is the accuracy class of CT used in TSS
- a) 10 P b) 6P c) 5P d) 2P
37. What is the overload capacity of CT used in TSS
- a) 150% for 5 min b) 150% for 15min c) 150% for 20min d) NIL
38. What is the burden of CT used in TSS
- a) 60 VA b) 30VA c) 20VA d) NIL
39. CTD stands for
- a) Counter device b) Clock device c) Capacitor tripping device d) nil
40. What is the role of Gas density monitor pressure switch in SF6 CB
- a) To monitor level of oil b) To monitor closing of CB
- c) To give alarm and lockout at low gas d) nil
41. Arc chamber in CB consist of
- a) Fixed contact b) Moving contact c) Fixed & Moving contact d) nil

42. What is the role of motor in CB
 a) To trip b) To close c) To charge spring d) nil
43. Normal rating current of 25kv SF6 CB
 a) 1200A b) 1500A c) 1600A d) 2000A
44. What do you mean by PPM in connection with Transformer oil
 a) part part month b) partical per million
 c) pure percentage maintenance d) nil
45. TMS stands for
 a) Time machine system b) Time Multiplier Setting
 c) Time Mechanical System d) nil
46. What will be the "regulating ratio" of 3 pulley block system type ATD
 a) 1:1 b) 1:2 c) 3:1 d) 5:1
47. ATD & its parameters is design for the standard temperature :-
 a) 5°C b) 16°C c) 35°C d) 65 °C
48. In winch type ATD, the measurement 'Y' is the distance between :-
 a) Rail level & bottom of the counter weight b) Top of muff & bottom of the counter weight
 c) Centre of fixed pulley & top of the counter weight d) None of the above
49. In winch type ATD, the measurement 'Z' is the distance between :-
 a) drum centre to centre of movable pulley b) nearest face of the structure to drum centre
 c) nearest face of the structure to the centre d) none of the above
50. In 3- pulley block system ATD, the measurement 'X' is the distance between :-
 a) centre of 1'st fixed pulley to centre of movable pulley
 b) nearest face of the structure to first fixed pulley
 c) nearest face of the structure to centre of movable pulley
 d) centre of middle fixed pulley to centre of movable pulley
51. In winch type ATD, the counter weight is :-
 a) 400 kg b) 500kg c) 625kg d) 700kg
52. In 3- pulley block type ATD, the counter weight is :-
 a) 400kg b) 420kg c) 665kg d) nil]
53. In 3- pulley block type ATD, the diameter of pulley-old & new respectively :-
 a) 150 mm & 250 mm b) 180 mm & 250 mm
 c) 170 mm & 250 mm d) 160 mm & 250 mm
54. In 3- pulley block type ATD(new), the measurement 'X' at 35°C is :-
 a) 1250mm b) 1300mm c) 1400mm d) 1310mm
55. In 3-pulley block type ATD(new & old), the measurement 'Y' at 35°C is :-
 a) 2200mm b) 2300mm c) 2400mm d) 2255mm
56. In tramway type regulated OHE, the tension is kept in contact wire :-
 a) 2000kg b) 1250kg c) 1300kg d) 1600kg
57. In tramway type OHE, the measurement 'Y' at 35°C , for winch type ATD is :-
 a) 2400mm b) 2200mm c) 2600 mm d) nil
58. In tramway type OHE, the measurement 'X' at 35°C , for 3- pulley block ATD is :-
 a) 1100 mm b) 1300mm c) 1250mm d) 1150mm
59. In tramway type OHE, the measurement 'Y' at 35°C , for 3- pulley block ATD is :-
 a) 2525mm b) 1300mm c) 2500mm d) nil
60. Linear coefficient of copper i.e. alfa is :-
 a) 17×10^6 mm/m/°C b) 1.7×10^{-6} mm/m/°C

c) 17×10^{-6} m/m/ $^{\circ}$ C

d) 23×10^{-6} mm/m/ $^{\circ}$ C

61. In tramway type OHE, the counter weight for three pulley ATD is :-

a) 420kg

b) 250kg

c) 200kg

d) 400kg

62. In 3- pulley type ATD, If the variation in 'X' values is 10 mm, what will be the variation in 'Y' value

a) 10mm

b) 20mm

c) 30mm

d) 40mm

63. If tension length is maximum 750 m, ATD is provided at one end then

a) 350 m from the ATD

b) 375 m from the ATD

c) 300 m from the ATD

d) anticreep not required

64. Length of stain less steel rope in winch type ATD :-

a) 7.5 m

b) 12.5 m

c) 8.0 m

d) 10.5 m

65. Length of stain less steel rope in 3- pulley block type ATD :-

a) 8.0 m

b) 10.5 m

c) 7.0 m

d) 12.0 m

66. RDSO approved supplier of SS wire rope is

a) SWR

b) BWR

c) BHEL

d) SKF

67. The periodicity of ATD POH is

a) 1 YRS

b) 2YRS

c) 3YRS

d) 4.5YRS

68. Bearing used in ATD is of which make

a) SFK

b) SKF

c) BNC

d) BWR

69. Why fat seal is provided in ATD

a) For lubrication

b) For packing

c) To prevent from moisture

d) Not required

70. Why pipe is provided in antifouling rod

a) To reduce distance

b) To improve strength

c) To reduce sag when SS rope brakes

d) Not required

71. How much weight of force required to test ATD working

a) 10KG

b) 15KG

c) 20KG

d) 100KG

72. What is the bearing Number used in ATD

a) 5036

b) 6300

c) 6305

d) 3605

73. Which type of overlap provided in front of ATD

a) Insulated

b) Un insulated

c) Normal OHE

d) Any type

74. Which oil is used for lubrication of SS wire rope

a) SAE 40

b) Bamrol

c) SAE 30

d) SAE 10

75. During which condition the ATD is to be locked

a) During Maintenance

b) During break down time

c) During rain

d) Never

76. Which type of grease is used in pulley of ATD

a) Lithium base grease

b) silicon grease

c) general grease

d) petroleum gelly

77. Codal life of Three pulley ATD (Movable parts)

a) 40yrs

b) 50yrs

c) 20yrs

d) 30yrs

78. Bearing No- 6305 ZZ in this what ZZ indicates

a) Normal bearing

b) Single end sealed bearing

c) Double end sealed bearing

d) Roller bearing

79. Dimension of "O" type portal is

(a) 75 x 75 x 6 mm

(b) 75 x 75 x 8 mm

(c) 75 x 75 x 10 mm

(d) 80 x 80 x 8 mm

80. Dimension of "R" type portal is

- (a) 80 x 80 x 6 mm (b) 75 x 75 x 8 mm
(c) 75 x 75 x 10 mm (d) 80 x 80 x 8 mm
81. ACTM
(a) AC Train Manual (b) AC Traction Manual
(c) AC Traffic Manual (d) AC Training Manual
82. GR & SR
(a) General Rules & Subsidiary Rules (b) General Rules & Safety Rules
(c) Grand Rules & Subsidiary Rules (d) Grand Rules & Safety Rules
83. In AC traction ,how many droppers in 35 m. non standard span length
(a) 5 Droppers (b) 4 Droppers
(c) 6 Droppers (d) 3 Droppers
84. In AC traction, spacing of 'A' dropper (1st dropper from the support) is
(a) 4.50 m (b) 2.50 m
(c) 2.25 m (d) 2.00 m
85. If span length increases , than variation in elasticity of OHE
(a) Increases (b) Decreases
(c) Remains same (d) Cannot say
86. If span length decreases , than variation in elasticity of OHE over a span
(a) Increases (b) Decreases
(c) Remains same (d) Cannot say
87. Maximum elasticity of OHE occurs at mid span, which depends upon
(a) Tension of OHE (b) Span length
(c) Vertical static force by pantograph (d) All of the above
88. The arrangement of over lap type turn out will be in
(a) One span (b) Two spans
(c) Three spans (d) Four spans
89. The arrangement of knuckle type turn out will be in
(a) One span (b) Two spans
(c) Three spans (d) Four spans
90. The arrangement of cross type turn out will be in
(a) One span (b) Two spans
(c) Three spans (d) Four spans
91. When is the primer applied.
A) after painting B) before painting
C) Add to Paint D) None of these
92. What is the cross section of traction bond for OHE.
A) 40X8 mm² B) 40X6 mm²
C) 40X10 mm² D) All of the above
93. Structure bonds are called.
A) Middle of track from mast B) Middle of track from portal
C) Middle of track from metallic breezes D) All of the above
94. Inter track cross bonds are applied at approx.
A) 500 m B) 450 m
C) 350 m D) 300m
95. Which of the following bonds are not imposed by TRD division?
A) Structure Bond B) Cross Bond
C) Impedance Bond D) None of these

96. What is the size of traction bond at switching posts.

A) 40X8 mm²

B) 40X6 mm²

C) 50X6 mm²

D) All of the above

97. Current collection test is carried out in OHE to find out

(a) Current carrying capacity of catenary wire

(b) Current carrying capacity of contact wire

(c) Current carrying capacity of different jumpers

(d) Location of sparking during movement of pantograph

98. Current collection test is carried out during

(a) Before monsoon

(b) During monsoon

(c) After monsoon

(d) Night only

99. Places, where sparking takes place during current collection test .What may be the reason of sparking ?

(a) OHE is not proper

(b) Track is not proper

(c) Rolling stock is not proper

(d) All of the above or either (a) or(b) or (c)

100. Places, where sparking takes place during current collection test .What may be the reason of sparking on account of OHE ?

(a) Kink in OHE

(b) Improper gradient of contact wire

(c) Improper tension in OHE conductors

(d) All of the above

Set 5 Answer sheet

1.	C
2.	A
3.	B
4.	A
5.	C
6.	B
7.	C
8.	D
9.	A
10.	A
11.	A
12.	A
13.	A
14.	C
15.	A
16.	A
17.	A
18.	A
19.	A
20.	A
21.	A
22.	A
23.	A
24.	A
25.	C
26.	C
27.	D
28.	B
29.	B
30.	B
31.	C
32.	C
33.	B
34.	C
35.	B
36.	C
37.	A
38.	A
39.	C
40.	C
41.	C
42.	C
43.	C
44.	B
45.	B
46.	C
47.	C
48.	B
49.	A
50.	D
51.	A
52.	C
53.	C
54.	B
55.	B
56.	B
57.	C
58.	B
59.	A
60.	A

61.	A
62.	C
63.	D
64.	D
65.	A
66.	B
67.	D
68.	B
69.	C
70.	C
71.	A
72.	C
73.	D
74.	B
75.	B
76.	A
77.	D
78.	C
79.	B
80.	D
81.	B
82.	A
83.	A
84.	C
85.	A
86.	B
87.	D
88.	B
89.	A
90.	A
91.	B
92.	B
93.	D
94.	C
95.	C
96.	C
97.	D
98.	D
99.	D
100.	D