

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

1. Maximum speed of Tower wagon with platform raised.
a) 100 KMPH b) 15 KMPH c) 50 KMPH d) 5 KMPH
2. POH of OHE is to be done after
a) 3 years b) 4 years c) 5 years d) 6 years
3. Minimum cross section area of Earthing rod cable.
a) 10 Sq.mm b) 20 Sq.mm c) 30 Sq.mm d) 40 Sq.mm
4. Discharge rods to be provided in 2 Km single line OHE.
a) 2 b) 3 c) 4 d) 5
5. Who can grant Traffic Blocks.
a) TPC b) ATNL c) TLC d) PWI (control)
6. Who grants local (Yards/Sidings) Power Block
a) TPC b) ATNL c) SM d) TLC
7. Private No. book to be preserved for at least.
a) 6 months b) 1 year c) 2 year d) 3 year
8. Permit to work only be issued by
a) Khallasi b) Technician c) Sr. Technician d) Technician Gr. II
9. Length of Pan of AM-12 type Pantograph.
a) 600 mm b) 900 mm c) 1200 mm d) 1800 mm
10. Distance between contact and catenary at support.
a) Clearance b) Catenary space c) Stagger d) Encumbrance
11. Type of Portal used for 10-20 m clear span.
a) 'O' b) 'R' c) 'N' d) 'G'
12. Type of Fdn to be used for Black cotton soil.
a) Side gravity b) Black cotton c) Side bearing d) Pure Gravity
13. Minimum Height of Contact wire at level crossing.
a) 5.6 m b) 5.8 m c) 5.75 m d) 5.5 m
14. Direction of S.I. runners in double line section.
a) Forward b) North c) Loco d) Trailing side
15. DN line Elementary section carry
a) +VE numbers b) -VE numbers c) Odd numbers d) Even numbers
16. UP line Elementary sections carry.
a) Equal numbers b) Odd numbers c) Even numbers d) +VE numbers
17. The height gauge erected at level crossing with clear height above road level is
a) 4.76 mtrs b) 4.80 mtrs c) 4.67 mtrs d) 4.00 mtrs
18. WTI trip operates at
a) 85°C b) 80°C c) 90°C d) 95°C
19. OTI Alarm operates at
a) 85°C b) 80°C c) 90°C d) 95°C
20. Highest tap setting for 132/25 KV transformer
a) 100% b) 110% c) 90% d) 115%
21. Lowest tap setting for 132/25 KV transformer
a) 90% b) 80% c) 110% d) 85%

22. 100% Overload in transformer permitted for minimum minute
- a) 1 b) 3 c) 5 d) 15
23. Numbers of BMS provided at SP in general
- a) 8 Nos b) 5 Nos c) 4 Nos d) 6 Nos
24. Rating of meggar used for CB/BM coils
- a) 5 Kv b) 2.5 Kv c) 2 Kv d) 500 Volts
25. Plug setting is termed as
- a) SP b) PS c) PSM d) IPS
26. Latest feeder protection relay
- a) ADD b) Numrical c) ZFB d) ACAG
27. VA Rating of A.T provided at IBH.
- a) 10 b) 100 c) 1000 d) 5000
28. Tripping time of SF-6 25 KV C.B. in ms
- a) 10 b) 20 c) 80 d) 45
29. 132/25 KV- 12.5 MVA transformer bushing (HV) ratio in Amp.
- a) 200/5 b) 250/5 c) 500/5 d) 1000/5
30. 132/25 Kv - 12.5 MVA transformer bushing (LV) Ratio in Amp.
- a) 200/5 b) 250/5 c) 750/5 d) 1000/5
31. 132 Kv L.A. Rating
- a) 140 Kv b) 132 Kv c) 120 Kv d) 42 Kv
32. Gas filled in sealed PT/CT
- a) O₂ b) H₂ c) N₂ d) N₃
33. Minimum oil BDV for 132 Kv equipment in Kv
- a) 20 b) 30 c) 40 d) 50
34. The relay for back up to MHO is
- a) WPC b) ADDR1 c) Earth Fault d) DELTA-I
35. Which gas is filled in VCB
- a) N₂ b) SF-6 c) O₂ d) NONE
36. Off load capacity of 20 MVA transformer
- a) 12.5 MVA b) 21.6 MVA c) 10 MVA d) 22 MVA
37. Maximum L.V. Voltage of 132/25 Kv transformer
- a) 30 Kv b) 28 Kv c) 27.5 Kv d) 25 Kv
38. Minimum Amp. Hour capacity of TSS Battery
- a) 100 b) 24 c) 72 d) 200
39. Minimum Amp.Hour capacity of SSP Battery
- a) 30 b) 40 c) 200 d) 210
40. Maximum Volt Amp. in 1 MVA
- a) 100 b) 1000 c) 1000000 d) 10000000
41. 150% Over load in 132/25 Kv transformer taken care by
- a) Instantaneous b) MHO c) Buchholz d) IDMT
42. DGA test is on
- a) Over lap b) Tr. Winding c) Tr. Oil d) Bushing C.T.

43. Operation of VCB is done by
a) GAS b) AIR c) Latch d) Springs
44. Instrument to take specific Gr. of Battery
a) Cell tester b) Lactometer c) Hydrometer d) AVO meter
45. Maximum Overhaul period for TSS relays
a) 5 years b) 10 years c) 15 years d) 20 years
46. Fortnightly inspection of SWS is by
a) Khallasi b) Artisan c) Supervisor d) AEE
47. Before setting tap of tapchanger finally
a) Charge transformer b) Move tap few times
c) Lock tap changer d) Open tap changer
48. Protection of Type-II P.T. is by
a) MHO b) FUSE c) LINK d) CAG
49. Test for remaining life assessment of transformer
a) DGA b) ISS 1866 c) ISS 335 d) FURAN
50. Polarity of traction transformer
a) Negative b) Positive c) Subtractive d) Additive
51. IR value of new bushing
a) 100 M Ohm b) 1000 M Ohm c) 10000 M Ohm d) 100000 M Ohm
52. _____ to be recorded with IR Value
a) W.T b) O.T c) Ambient d) Body temp.
53. Clearance between 132 Kv phases in mm
a) 1000 b) 100 c) 1200 d) 1300
54. Clearance between 132 Kv, phase and earth in mm
a) 1300 b) 1000 c) 1100 d) 1800
55. To protect FP Overlap OHE from parting _____ Relay provided
a) MHO b) WPC c) Panto Flashover d) DELTA-I
56. Unit of Energy consumption for traction
a) KVA b) KVAH c) KVAKH d) KWH
57. Load factor of traction supply is generally
a) 100% b) 10% c) 80% d) 40%
58. Polarity of C.T. tested by
a) CFB b) ZFB c) DC Flick test d) A.C. test
59. Minimum IR value of (25kv) LV winding (as thumb rule)
a) 100 M Ohm b) 200 M Ohm c) 300 M Ohm d) 400 M Ohm
60. Minimum IR value of (132kv) H.V. winding (as thumb rule)
1000 M Ohm 2000 M Ohm 3000 M Ohm 4000 M Ohm
61. Secondary protection of 10 KVA A.T. is by
a) LINK b) D.O. FUSE c) ELEMENT d) 42 A. FUSE
62. C.T. Ratio can be taken by
a) Voltmeter b) Ammeter
c) Primary injection kit d) Secondary injection kit
63. Polarization Index of Transformer winding helps to know?

80. What is the Ratio of 132kv/27kv Power Transformer at 100% Tap?
 a) 4.888 b) 5.076 c) 5.280 d) 5.50
81. What is effect of less % impedance of traction transformer
 a) Value of fault current increases b) Value of fault current decrease
 c) Fault current do not change d) None of above
82. What is Impedance value of transformer of 12.5 MVA at 10 % impedance
 a) 5 ohms b) 6.25 Ohms c) 4.0 Ohms d) 6.0 Ohms
83. In Traction Power Transformer which winding is placed first to core?
 a) H V b) LV c) HV tapping d) LV tapping
84. What is value of percentage Impedance of Traction Power Transformer?
 a) 10% to 12.5% b) 8% to 10% c) 12.5% to 15% d) 15% to 20%
85. What is overload capacity of Traction Power Transformer?
 a) 50% for 5 minute b) 100% for 15 minute
 c) 50% for 15 minute & 100% for 5 minute d) 50% for 10minute
86. Traction transformer 132 /25 KV , 20 MVA has Max efficiency at what % load for ONAN cooling ?
 a) 40 % b) 60 % c) 50 % d) 100 %
87. Highest voltage for equipment on 25 KV side is considered as
 a) 30 KV b) 25 KV c) 52 KV d) 27.5 KV
88. The rated current of 132 KV side of 21.6 MVA transformer shall be
 a) 500 Amp b) 163 Amp c) 200 Amp d) 1000 Amps
89. The rated current of 25 KV side of 21.6 MVA transformer shall be
 a) 163 Amp b) 800 Amp c) 200 Amp d) 1000 Amps
90. Which of following is not a type test for 132 KV /25 KV transformer
 a) Temp rise test b) Insulation resistance test
 c) Impulse Voltage test d) Partial discharge test.
91. Which of following is not a routing test for 132/25 KV transformer
 a) Temp rise test b) Insulation resistance test
 c) Ratio test d) shot circuit test
92. Why capacitor bank is provided in TSS?
 a) For lowering the load b) For improving the v/g
 c) For improving the p f d) For decreasing the v/g
93. In TSS where capacitor bank is connected?
 a) 132kv side b) 25kv side
 c) 25kv feeder side d) Any where
94. How ammeter is connected in circuit?
 a) Parallel b) Series c) Series & Parallel d) None
95. How voltmeter is connected in circuit?
 a) Series b) Parallel c) Series & Parallel d) None of the above
96. Whether in ammeter both the terminal can be shorted?
 a) Yes b) No c) Meter d) burns d) None
97. By which instrument current in the circuit can be measured without disconnecting the circuit?
 a) Tong tester b) Ammeter c) Voltmeter d) None

98. With the help of megger which quantity is measured?

- a) IR value b) BDV c) Voltage d) Current

99. For measuring PI which type megger is preferred?

- a) Motorised b) Hand operated c) ALL d) NIL

100. At the output of megger which type of voltage is obtained?

- a) AC b) DC c) AC or DC d) None of the above

Set 4 Answer Sheet

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

50	C
51	C
52	B
53	D
54	A
55	C
56	D
57	D
58	C
59	B
60	B
61	D
62	C
63	D
64	B
65	B
66	D
67	B
68	D
69	D
70	D
71	B
72	A
73	C
74	B
75	A
76	A
77	A
78	A
79	A
80	A
81	A
82	A
83	A
84	A
85	C
86	C
87	C
88	B
89	B
90	B
91	A
92	C
93	B
94	B
95	B
96	A
97	A
98	A

99	A
100	B