

1. Normal implantation on main line
 - a) 2.21 M`
 - b) 2.36 M
 - c) 2.40 M
 - d) 2.80 M
2. Stagger of contact wire on tangent track
 - a) Zero
 - b) +_ 100 mm
 - c)+_ 200 mm
 - d)+_ 300 mm
3. Diameter of new contact wire
 - a) 12.24 mm
 - b) 12.14 mm
 - c) 12.04 mm
 - d) 8.25 mm
4. Max. permissible difference in span between two adjacent span
 - a) 24 Mt
 - b) 18 Mt
 - c) 16 Mt
 - d) 21 M
5. Cross section of BFB mast
 - a) 152 x 152 mm
 - b) 100 x 200 mm
 - c) 200 x 150 mm
 - d) 200 x 250 mm
- 6.Max. permissible variation in Setting distance :
 - a) 50 mm
 - b) 40 mm
 - c) 30 mm
 - d) 20 mm
- 7.At T/O obligatory mast, height of M/L OHE should be below T/O OHE by
 - a) 100 mm minimum
 - b) 70 mm minimum
 - c) 60 mm minimum
 - d) 50 mm minimum
- 8.Height of height gauge at LC gate
 - a) 5.6 M
 - b) 5.56 M
 - c) 4.67 M
 - d) 4.76 M
- 9.Composition/Material of catenary wire is
 - a) cu
 - b) Cd Cu
 - c) Ni Cu
 - d) Ni Cd
- 10.Distance of G jumper from obligatory mast
 - a) 4.0 M
 - b) 5.2 M
 - c) 5.6 M
 - d) 6.0 M
- 11.Normal implantation of obligatory mast at Turn out
 - a) 2.50 M
 - b) 3.0 M
 - c) 3.5 M
 - d) 2.36 M
- 12.Stagger of Section Insulator should be within the limit of
 - a) +_ 50 cm
 - b) +_ 100 cm
 - c) +_ 10 cm
 - d) +_ 5 cm
- 13..On curved track, stagger of cont. wire is generally
 - a) 200 mm
 - b) 250 mm
 - c) 300 mm
 - d) 350 mm
- 14.At Insulated over lap, the horizontal gap between two OHE is
 - a) 200 mm
 - b) 300 mm
 - c) 400 mm
 - d) 500 mm
- 15.The min. height of contact wire at loco inspection pit
 - a) 5.8 M
 - b) 5.6 M
 - c) 5.55 M
 - d) 5.50 M
- 16.Min.length of mast below rail level for regulated OHE
 - a) 1500 mm
 - b) 1750 mm
 - c) 1850 mm
 - d) 2000 mm

17. Type of portal to be used for clear span of 30 - 40 M
- a) N type
 - b) R type
 - c) G type
 - d) O type
18. Wind pressure adopted for OHE for green zone (Light)
- a) 50 kg/sq m
 - b) 60 kg/sq m
 - c) 65 kg/sq m
 - d) 75 kg/sq m
19. Where earth wire is provided the Max. span over LC gate is
- a) 67.5 M
 - b) 58.5 m
 - c) 54 M
 - d) 51.5 M
20. Buchholz relay operates in the event of
- a) Earth fault
 - b) Short circuit fault
 - c) Evolution of Internal gas
 - d) High temperature
21. The Alarm due to high winding temperature is operated at
- a) 80 deg. C
 - b) 85 deg. C
 - c) 90 deg. C
 - d) 95 deg. C
22. Max. limit of acidity of transformer oil in service
- a) 0.5 mg KOH/g of Oil
 - b) 0.3 mg KOH/g of Oil
 - c) 0.2 mg KOH/g of Oil
 - d) 0.4 mg KOH/g of Oil
23. Flash point of transformer oil should be above
- a) 150 deg. c
 - b) 140 deg. C
 - c) 130 deg. C
 - d) 120 deg. C
24. No. of tap settings in traction transformer are
- a) 8
 - b) 7
 - c) 6
 - d) 5
25. Min. IR value of main transformer bet. LV and HV windings
- a) 2500 mega ohms
 - b) 3000 mega ohms
 - c) 2000 mega ohms
 - d) 1500 mega ohms
26. 50% overload of Main Traction Transformer is permitted for a period of
- a) 30 minutes
 - b) 15 minutes
 - c) 5 minutes
 - d) Not allowed
27. POH of transformer is to be carried out after every
- a) 5 years
 - b) 7 years
 - c) 10 years
 - d) 12 years
28. Discharge Rod cable to be replaced if %age of strands broken exceeds
- a) 20%
 - b) 10 %
 - c) 5 %
 - d) No strand cut allowed
29. The UVR relay setting at SP corresponding to OHE voltage of
- a) 17.5 KV
 - b) 18.5 KV
 - c) 19 KV
 - d) 15 KV
30. Max. Tandelta value of the condenser bushing of main transformer
- a) 0.1
 - b) 0.007
 - c) 0.07
 - d) 0.1
31. Voltage rating of meggar for measuring IR value of Main Transformer
- a) 5 KV
 - b) 1.5 KV
 - c) 0.5 KV
 - d) 1 KV
32. Time setting of relay is termed as
- a) TS
 - b) TMS
 - c) TSS
 - d) MS

33. Type of transformer oil to be used in new/POHed transformer
- a) Inhibited Transformer oil as per IS 12463 b) EHV transformer oil
c) Transformer oil as per IS 335 d) Transformer oil as per IS 1866
34. The trip due to high Oil temperature is operated at
- a) 85 deg. C b) 90 deg. C
c) 95 deg. C d) 80 deg. C
35. MHO relay in TSS operate in the event of
- a) overload b) Short circuit fault
c) Surge voltage d) Earth fault
36. Lightning arrester provided on the 25 KV side is rated for
- a) 60 KV b) 48 KV
c) 42 KV d) 30 KV
37. Normal rated current of OHE is
- a) 500 Amp b) 600 Amps
c) 800 Amp d) 400 Amp
38. Power factor above which rebate is allowed by SEB
- a) 0.95 b) 0.9
c) 0.85 d) None
39. The contract demand is to be reviewed at interval of every
- a) 2 years b) 1 year
c) 6 months d) month
40. The function of Silicagel breather is
- a) To purify the moisture from other gas b) To Expel the moisture from other gas.
c) To Prevent the moisture to enter with air d) To Separate the oil from air.
41. The electrode gap of oil test for BDV
- a) 2.0 mm b) 2.5 mm
c) 4.0 mm d) 4.5 mm
42. The length of Conventional Neutral section is
- a) 41.5 M b) 41.0 Mt
c) 40.0 M d) 45.0 M
43. Material of contact wire is
- a) Cadmium Copper b) Electrolyte copper
c) Bronze copper d) Hard drawn copper
44. Max. Torque Angle of WPC Relay
- a) 45 deg. b) 75 deg.
c) 90 deg. d) 125 deg.
45. Max. torque Angle of MHO relay
- a) 75 deg. b) 90 deg.
c) 125 deg. d) 150 deg.
46. The type of OCR provided for feeder protection is
- a) IDMT relay b) Instantaneous relay
c) Differential relay d) High speed relay
47. Min. clearance of OHE for passing ODC with power block on at 15 KMPH
- a) 300 mm b) 250 mm
c) 180 mm d) 50 mm
48. In 25 KV SF-6 C.B. the lock out for low gas pressure operates at
- a) 5.6 kg/sq cm b) 4.8 kg/sq cm
c) 4.5 kg/sq cm d) 4.0 kg/sq cm
49. The Max. permissible Combined Earth resistance at TSS

66. Minimum vertical clearance from OHE to earthed structure for short duration
- a) 380 mm
 - b) 320 mm
 - c) 270 mm
 - d) 200 mm
67. Minimum implantation of portal upright
- a) 3.00 mt
 - b) 2.50 mt
 - c) 2.36 mt
 - d) 4.75 mt
68. Max. tension length of unregulated OHE
- a) 1.6 Km
 - b) 1.7 Km
 - c) 1.8 Km
 - d) 2 Km
69. Minimum length of parallel running of two OHEs at Overlap
- a) 10 mt
 - b) 5 mt
 - c) 3 mt
 - d) 2 mt
70. PTFE neutral section before a stop signal should be at a minimum distance of
- a) 500 mt
 - b) 400 mt
 - c) 300 mt
 - d) 200 mt
71. PTFE Neutral section located after a stop signal should be at minimum distance of
- a) 800 M
 - b) 500 M
 - c) 400 M
 - d) 300 M
72. Minimum implantation on platform
- a) 5.5 mt
 - b) 4.75 mt
 - c) 3.0 mt
 - d) 2.50 mt
73. Track separation at obligatory mast of Turn out/Cross over
- a) 150 - 750 mm
 - b) 500-750 mm
 - c) 250-600 mm
 - d) 100-500 mm
74. Minimum implantation of obligatory mast
- a) 4.75 mt
 - b) 3 mt
 - c) 2.75 mt
 - d) 2.50 mt
75. Max. span of regulated Tramway type OHE
- a) 72 mt
 - b) 67.5 mt
 - c) 63 mt
 - d) 54 mt
76. Max. span in unregulated tramway type OHE
- a) 60 mt
 - b) 54 mt
 - c) 45 mt
 - d) 30 mt
77. Minimum distance of any tree branch from live OHE is
- a) 9 mt
 - b) 6 mt
 - c) 4 mt
 - d) 2 mt
78. Retensioning of unregulated OHE to be done every
- a) 6 months
 - b) 12 months
 - c) 24 months
 - d) 36 months
79. Span length of a Neutral Section (conversion) type
- a) 54 mt
 - b) 49.5mt
 - c) 45 mt
 - d) 41 mt
80. Clearance of 'C' class ODC from OHE
- a) 60 mm to 80mm
 - b) 100 mm to 200mm
 - c) 200 mm to 250mm
 - d) Above 250 mm
81. Minimum clearance of ODC from OHE for normal working with power ON
- a) 100 mm
 - b) 50 mm
 - c) 280 mm
 - d) 80 mm
82. Minimum clearance of ODC from OHE with power OFF at 15 KMPH
- a) 220 mm
 - b) 150 mm

99. Size of Potential equaliser jumper in Sq.mm.

- a) 105
- b) 65
- c) 50
- d) 30

100. Free movement of R.E. to be checked by.

- a) Rod
- b) Chain
- c) Hand
- d) Spring Balance

SET 3 ANSWER SHEET

| | |
|-----|---|
| 1. | D |
| 2. | C |
| 3. | A |
| 4. | B |
| 5. | C |
| 6. | C |
| 7. | D |
| 8. | C |
| 9. | B |
| 10. | C |
| 11. | B |
| 12. | C |
| 13. | C |
| 14. | D |
| 15. | A |
| 16. | C |
| 17. | B |
| 18. | D |
| 19. | B |
| 20. | C |
| 21. | C |
| 22. | A |
| 23. | B |
| 24. | C |
| 25. | A |
| 26. | B |
| 27. | C |
| 28. | A |
| 29. | C |
| 30. | B |
| 31. | A |
| 32. | B |
| 33. | A |
| 34. | A |
| 35. | D |
| 36. | C |
| 37. | B |
| 38. | A |

| | |
|-----|---|
| 39. | C |
| 40. | C |
| 41. | B |
| 42. | B |
| 43. | D |
| 44. | D |
| 45. | A |
| 46. | B |
| 47. | C |
| 48. | D |
| 49. | B |
| 50. | C |
| 51. | D |
| 52. | B |
| 53. | D |
| 54. | C |
| 55. | A |
| 56. | D |
| 57. | D |
| 58. | B |
| 59. | A |
| 60. | C |
| 61. | D |
| 62. | C |
| 63. | C |
| 64. | C |
| 65. | B |
| 66. | C |
| 67. | A |
| 68. | D |
| 69. | D |
| 70. | D |
| 71. | C |
| 72. | B |
| 73. | A |
| 74. | B |

| | |
|------|---|
| 75. | C |
| 76. | D |
| 77. | C |
| 78. | C |
| 79. | B |
| 80. | B |
| 81. | C |
| 82. | B |
| 83. | A |
| 84. | A |
| 85. | C |
| 86. | C |
| 87. | C |
| 88. | D |
| 89. | B |
| 90. | B |
| 91. | A |
| 92. | D |
| 93. | B |
| 94. | B |
| 95. | B |
| 96. | C |
| 97. | D |
| 98. | C |
| 99. | C |
| 100. | D |