1. What is the preferred method of temporarily securing a pole if it broken above the ground?
   a. Crossarm butt splice.
   b. Lashing of the pole butt.
   c. Install a PISA anchor at the base of the pole and lash the butt.
   d. Install log anchors and 5/16” guy wires

2. When using a holdfast as a temporary anchor, the rods shall be installed at what angle to the line of pull?
   a. 60 degrees
   b. 90 degrees
   c. 120 degrees
   d. 150 degrees

3. What voltage falls within the distribution range?
   a. 25 kV
   b. 138 kV
   c. 230 kV
   d. 345 kV

4. When connecting a pole ground, which connection should be made first?
   a. Ground wire to neutral.
   b. Ground wire to ground rod.
   c. Ground wire to transformer tank.
   d. Sequence is not important.

5. A rotten pole may stand and look ok.
   a. True
   b. False

6. According to the rule of thumb, once a tangent structure has gone past ________________ from vertical it must be straightened before a PLT climbs it
   a. 18 inches
   b. 24 inches
   c. 30 inches
   d. 36 inches

7. Vertical cracks on a pole
   a. Are a sign that the pole is getting old.
   b. Indicate there may be rot on the inside.
   c. Do not usually weaken the pole.
   d. Are a sign of undue stress on the pole.

8. Which of the following should not be used to secure a pole before climbing?
   a. Secure the pole with the line truck’s boom.
   b. Lash a pole to a new pole when it is to be replaced.
   c. Secure the pole with ropes or guy wires secured to a stationary object.
   d. Use pike poles to support the pole.

9. As a rule of thumb, how far must a tangent structure go from the vertical before it must be straightened?
   a. 45 cm
b. 70 cm
c. 100 cm
d. 150 cm

10. Once a pole has been straightened, what is the last thing that must be completed?
   a. Sign-off on the back for the tailboard
   b. Backfill the hole and tamp firm
   c. Re-sag conductors on the structure
   d. Install digging bars and lash to the pole

11. When a helicopter is flying a tower to the site, what is likely to build up on the tower?
   a) ice
   b) condensation
   c) electromagnetic induction
   d) a static charge

12. Using Pythagorean theory, calculate the guy length if the height of the pole (B) is 40 feet and anchor distance (A) is 60 feet.
   a. 72 ft.
   b. 102 ft.
   c. 62 ft.
   d. 52 ft.

13. What is the best way to evaluate an apprentice?
   a. A written assessment
   b. On the job
   c. An interview
   d. A verbal assessment

14. When using a gas-powered drill from the pole; what safety gear is required?
   a. Glasses, hard hat, ear protection
   b. Face shield, hard hat, steel-toed boots
   c. Chainsaw pants, hard hat, rubber gloves
   d. No PPE required

15. When you must install a pole, and you are in an area where you cannot get machinery in; what tools needed are?
   a. Shovel, pike-pole, sledge hammer, saddle
   b. Spoon, shovel, pike-pole, cant hook, shovel
   c. Grip all, Pole Tongs, Saddle
   d. Cross arm, cant hook

16. When aesthetics are important; what type of arm do you use?
   a. Wooden arm
   b. Fibre glass arm
   c. Alley arm
   d. Short arm

17. A rope being used to lift a load has a strength rating of 1200 pounds. Its strength would only be 600 pounds if:
   a. An old rope was used
   b. There were broken strands
   c. A square knot was used to secure the load
d. There is no load-rating tag on rope

18. On a 75’ H-frame structure; how many cross-braces should be used?
   e. 1
   a. 2
   b. 3
   c. 4

19. When building a vertical corner, the materials used are:
   a. Wood cross-arms
   b. String glass
   c. Chicken wing configuration
   d. Wish-bone configuration

20. When setting a pole on an uphill grade, the back of the pole should point:
   a. Uphill
   b. Downhill
   c. back-to-back, face-to-face
   d. to the left or right

21. What is the reason Electric Utilities use wood poles?
   a. Cost and availability
   b. Strength and availability
   c. Cost and strength
   d. Cost and durability

22. When a preform is damaged on a down-haul guy, what is taken into consideration when replacing it?
   a. Tension on guy, distance from pole
   b. Length of guy, tension of guy
   c. Size of guy wire, tension on guy
   d. Length of the pole and Anchor distance

23. When a helicopter is flying a tower to the site, what is likely to build up on the tower?
   a. A static charge
   b. Electromagnetic induction
   c. Ice
   d. Condensation

24. The maximum side pull that is allowed on the boom of an RBD (Rotary Boom Derrick) is:
   a. 00%
   b. 75%
   c. 50%
   d. 25%

25. When you inspect a core sample from a pole you are looking for:
   a. Psyllium spores
   b. The number of rings to determine the age of the pole
   c. Moisture content
   d. Visible rot

26. Which class of pole has the strongest horizontal strength?
   a. 6
   b. 0
   c. 1
27. What determines the diameter and depth of a pole hole?
   a. Conductor size
   b. Diameter of the butt and length of the pole
   c. Type of wood
   d. Type of terrain to be set on

28. If a Cad weld on a tower leg is bad you will see:
   a. Cold flow
   b. Galvanic corrosion
   c. Flaking paint
   d. Rust around the connection

29. Hardware closer than __________ together, must be bonded.
   a. 4” or 100 mm
   b. 10” or 250 mm
   c. 8” or 200 mm
   d. 1” or 50 mm

30. What is the general rule for determining the correct depth in which to set a pole
   a. 10% + 2 feet
   b. 9% + 2 feet
   c. 8% + 2 feet
   d. 7% + 2 feet

31. What often causes the vibration of a tower
   a. Harmonic vibration
   b. Loose guy
   c. Uneven ground
   d. Unstable structure

32. Tamping of a pole should be
   a. Fill a little then tamp then fill up
   b. Fill up and tamp
   c. Fill a little then tamp, fill a little then tamp until full and stocked
   d. Fill and then tamp until full and stocked

33. When grounding a truck and ground rods are not sufficient
   a. Extend ground cable
   b. Add more ground rods
   c. Return truck to store
   d. Transfer to better location

34. What is the compressive force on the dead-end pole if the height of the pole is 10 m, the tension is 570 kg and the guy is placed 14 m from the pole?
   a. 40.71
   b. 79.8
   c. 407.14
   d. 798

35. Insulators on a steel tower are being replaced on a double string dead-end of a 240 kV circuit with a tension of 5600 lb. Which equipment can be used to remove the strain?
a. Nylon ratchet tensioner.
b. Two-pole strain carrier.
c. Transmission insulator cradle.
d. Single-pole strain carrier.
ANSWER KEY

1. A
2. B
3. A
4. B
5. A
6. A
7. C
8. D
9. A
10. B
11. D
12. A
13. B
14. A
15. B
16. B
17. C
18. B
19. B
20. B (Gain faces always uphill)
21. A
22. C
23. A
24. A
25. D
26. B
27. B
28. B
29. A
30. A
31. A
32. C
33. B
34. C (T × H/L)
35. D