



Question paper for Transco Personnel on Electrical Safety.

PAPER SET - II

Name of the participant :
Designation: : Instructor :
Place of working : Designation:
Division : Date:
Circle/Zone : Result:

Attempt all questions
Time : 30 minutes

All questions carry equal marks
Maximum Marks : 25

- 1) **NEC Stands for** [.....]
a) National Engg. Council
b) National Electrical Code
c) National Environmental Code
d) None of the above.
- 2) **What does NEC explains.** [.....]
a) Electrical installation & Safety
b) Energy Conservation
c) Electrical wiring theory
d) Electrical construction process.
- 3) **IS 5216-Part II deals with.** [.....]
a) Safety Symbols b) safety poster
c) Life saving techniques d) None of the above.
- 4) **Periodical testing of Rubber gloves is required** [.....]
a) True b) False c) Don't Know
- 5) **Cross section of conductor shall be determined by.** [.....]
a) Maximum operating temperature
b) Voltage drop
c) Short circuit rating
d) All the above
- 6) **Safety procedure and practices in electrical works are given in** [.....]
a) IS 5216 : 1982
b) IS 15652 : 2006
c) IS 3043 :1987
d) IS 13234 : 1992

- 7) **Which factor is required to design Distribution Boards** [.....]
- a) Adequate size to accommodate cable
 - b) Including surge protective device
 - c) Earth leakage protective devices
 - d) All of the above
- 8) **Size of earth conductor depends on** [.....]
- a) Maximum operating temperature
 - b) Voltage drop
 - c) Short circuit current.
 - d) None of the above.
- 9) **What is the period for the requirement of pre commissioning test.. If the installation is not in use more than** [.....]
- a) More than six months
 - b) More than One year
 - c) More than two years
 - d) More than 5 years
- 10) **For checking the efficiency of earthing the following tests are recommended as per IS 3043:** [.....]
- a) The earth resistance of each electrode is measured
 - b) The earth resistance of earthing grid is measured
 - c) The earth resistance of the entire earthing system is measured.
 - d) All of the above
- 11) **Disturbance in Electrical system occurs due to** [.....]
- a) Atmospheric voltage surge (Due to lightning)
 - b) Operating Voltage surge (opening or closing of control device)
 - c) Voltage surge caused Line to ground faults.
 - d) All of the above.
- 12) **Which device is required for protection from Voltage surges.** [.....]
- a) Surge arrestor
 - b) Fuse
 - c) Body earthing
 - d) None of the above
- 13) **Which is best practice in Electrical work** [.....]
- a) Working on tower in the event of near approach of a lightning storm.
 - b) Allowing unauthorized persons to proceed in the vicinity of live mains and apparatus
 - c) Treat Everything As Live unless it is positively know to be dead and properly earthed .
 - d) Using umbrella in the vicinity of live mains and apparatus
- 14) **Which electrical shock treatment will revive the victim's if he has trouble to breath or no breathing.** [.....]
- a) Artificial respiration.
 - b) Calling doctor
 - c) First aid
 - d) None of the above

- 15) Which treatment is needed mostly for electrical shock victims** [.....]
- a) CPR (Cardio Pulmonary Resuscitation)
 - b) First Aid
 - c) Calling ambulance.
 - d) None of the above.
- 16) The disadvantages of low power factor** [.....]
- a) Overloading of cables and transformer,
 - b) More losses in the installation.
 - c) Penal power rates in the consumer billing.
 - d) All of the above
- 17) Work Permit System (Line Clear)is** [.....]
- a) Taking approval after the work is completed.
 - b) Permission before the work commences.
 - c) Entering into a register
 - d) None of the above.
- 18) What are the personal protective equipment to be used by an skilled Electrician.** [.....]
- a) Crash helmet and safety shoes.
 - b) Rubber Gauntlets or Gloves
 - c) Insulated tools
 - d) All of the above
- 19) The PPE tools should be tested frequently for their healthiness** [.....]
- a) True b) False c) Not known d) None of the above.
- 20) Smoke detectors required in a substation control room to** [.....]
- a) To detect heat
 - b) To detect smoke
 - c) To detect ambient temperature
 - d) None of the above.
- 21) Most of the Electrical Accidents caused due to** [.....]
- a) Ignorance
 - b) Innocence
 - c) Fire
 - d) None of the above.
- 22) Which precaution should take to commence electrical work** [.....]
- a) The switches are completely opened on both sides with apparatus discharged & earthed.
 - b) Danger notice plate are attached in conspicuous place on the main
 - c) Entry is made in the Log Book Or Log sheet to the effect that the mains and apparatus under permit have been made dead
 - d) All of the above

23) Fuse wires of different sizes are made of [.....]

- a) Copper
- b) Tin or Alloy of tin and lead
- c) Aluminums
- d) Steel wire

24) How the competency of an Electrician is calculated [.....]

- a) By his Educational qualifications
- b) By his skill in electrical works
- c) By his skill, Education and Experience
- d) By his attitude towards the work.

25) What type of fire extinguishers are used in Electrical system [.....]

- a) Class - C
- b) Class - B
- c) Class - D
- d) Class - F