

## PROVISIONAL ANSWER KEY

Paper: Functions of Electrical Inspectorate ... (Paper I)  
Medium of Question: English  
Date of Examination: 07-03-2019

Question1:-Where is the office of Kerala State Electricity Regulatory Commission located?

- A:-Thiruvananthapuram
- B:-Thrissur
- C:-Ernakulam
- D:-Kozhikkodu

Correct Answer:- Option-A

Question2:-Which of the following is not a general function of Regional Load Despatch Centre?

- A:-Exercise Supervision and control over the Interstate transmission system
- B:-Collect wheeling charges for the energy transmitted
- C:-Keep accounts of the quantity of electricity transmitted
- D:-Monitor Grid operations

Correct Answer:- Option-B

Question3:-What is the minimum accuracy class of consumer meters at HT premises?

- A:-0.5 S
- B:-0.2 S
- C:-1 S
- D:-0.25 S

Correct Answer:- Option-A

Question4:-What is the recommended minimum insulation value (in Mega Ohms) for LV three phase installations?

- A:-5
- B:-1
- C:-3
- D:-2

Correct Answer:- Option-B

Question5:-What is the distance from a 220 kV tower for which permission from the owner of the tower is required for carrying out cutting of soil?

- A:-50 m
- B:-20 m
- C:-30 m
- D:-10 m

Correct Answer:- Option-D

Question6:-How many years experience in practice of Electrical Engineering is required, besides other qualifications, for a person to be appointed as Chief Electrical Inspector?

- A:-15
- B:-20
- C:-10
- D:-12

Correct Answer:- Option-B

Question7:-When a 400 kV DC line crosses another 400 kV DC line, what is the minimum clearance to be maintained?

- A:-6.79 m
- B:-4.58 m
- C:-6.04 m
- D:-3.05 m

Correct Answer:- Option-C

Question8:-What is the spacing between an underground EHT cable and a Telecommunication cable?

- A:-75 cm
- B:-80 cm
- C:-50 cm
- D:-60 cm

Correct Answer:- Option-D

Question9:-Which Regulation of CEA (Measures relating to Electric Supply and Safety) Regulations, 2010 makes it mandatory for owners of overhead lines to provide Lightning Diverters?

- A:-76
- B:-81
- C:-74
- D:-114

Correct Answer:- Option-C

Question10:-What is the generally required minimum height of trolley wires of a traction feeder?

- A:-5.5 m
- B:-5.2 m
- C:-6.2 m
- D:-6.5 m

Correct Answer:- Option-B

Question11:-What is the cumulative solar power capacity that can normally be connected to the LT side of a distribution transformer, in terms of the transformer capacity?

- A:-50%
- B:-25%
- C:-15%
- D:-30%

Correct Answer:- Option-C

Question12:-When a 66 kV line crosses a 220 kV line, what is the minimum clearance to be maintained?

- A:-6.79 m
- B:-4.58 m
- C:-6.04 m
- D:-3.05 m

Correct Answer:- Option-B

Question13:-What is the percentage of ruling tariff applicable for 'Off Peak' usage of energy by an HT consumer?

- A:-50
- B:-75
- C:-100
- D:-125

Correct Answer:- Option-B

Question14:-What is the distance from a substation below which permission from the owner of the substation is required for carrying out blasting of any type?

- A:-300 m
- B:-350 m
- C:-400 m
- D:-450 m

Correct Answer:- Option-A

Question15:-How much is the fixed charges for an LT-IV industrial consumer having connected load of 15 KW?

- A:-Rs.100
- B:-Rs.80
- C:-Rs.50
- D:-Rs.60

Correct Answer:- Option-D

Question16:-What is the minimum vertical clearance specified for a building under a 110 kV line?

- A:-4.6 m
- B:-3.7 m
- C:-2.5 m
- D:-4.0 m

Correct Answer:- Option-A

Question17:-What is the minimum factor of safety for overhead lines on wooden supports?

- A:-1.5
- B:-2.0

C:-2.5  
D:-3.0

Correct Answer:- Option-D

Question18:-What is the minimum horizontal clearance for a building adjacent to an LT line?

A:-2.5 m  
B:-4.6 m  
C:-1.2 m  
D:-3.7 m

Correct Answer:- Option-C

Question19:-What is the minimum ground clearance for a 400 kV HVDC line?

A:-8.5 m  
B:-9.4 m  
C:-10.6 m  
D:-7.3 m

Correct Answer:- Option-B

Question20:-How many joints are allowed in one span of an overhead line?

A:-1  
B:-4  
C:-2  
D:-3

Correct Answer:- Option-A

Question21:-What is the clearance above ground level for an LT overhead line along any street?

A:-6.4 m  
B:-5.8 m  
C:-6.1 m  
D:-5.5 m

Correct Answer:- Option-D

Question22:-What is the time limit for restoration of supply in case of break down of overhead lines in Rural Areas?

A:-12 hours  
B:-8 hours  
C:-16 hours  
D:-24 hours

Correct Answer:- Option-A

Question23:-What is the frequency of periodical inspection of HT installations in the state?

A:-every year  
B:-once in two years  
C:-once in three years  
D:-once in five years

Correct Answer:- Option-A

Question24:-What is the rate of Electricity Duty per unit of consumption applicable to HT consumers in the state?

A:-1.2 paise  
B:-12 paise  
C:-100 paise  
D:-10 paise

Correct Answer:- Option-D

Question25:-What should be the minimum height to be provided for a passage behind a panel?

A:-1 m  
B:-1.5 m  
C:-1.6 m  
D:-1.8 m

Correct Answer:- Option-D

Question26:-What is the time limit for restoration of supply in case of failure of distribution transformer in difficult areas?

A:-72 hours  
B:-48 hours  
C:-16 hours  
D:-24 hours

Correct Answer:- Option-B

Question27:-What is the prescribed periodicity for testing of consumers' meters?

A:-2 years  
B:-3 years  
C:-4 years  
D:-5 years

Correct Answer:- Option-D

Question28:-Which is the IS for fire fighting systems in substations?

A:-3646/1966  
B:-3034/1993  
C:-8061/1976  
D:-3043/1987

Correct Answer:- Option-B

Question29:-What is the clearance above ground level for an LT overhead line along any street?

A:-5.5 m  
B:-5.8 m  
C:-6.1 m  
D:-6.4 m

Correct Answer:- Option-A

Question30:-What is the maximum periodicity of inspection of electrical installations?

A:-4 years  
B:-5 years  
C:-2 years  
D:-1 year

Correct Answer:- Option-B

Question31:-What is the clearance above ground level for an HT overhead line along any street?

A:-5.8 m  
B:-5.5 m  
C:-6.1 m  
D:-6.4 m

Correct Answer:- Option-A

Question32:-When a 110 kV AC line crosses a 500 KV DC line, what is the minimum clearance to be maintained?

A:-6.79 m  
B:-7.54 m  
C:-6.04 m  
D:-3.05 m

Correct Answer:- Option-A

Question33:-Who appoints the chairperson of Consumer Grievance Redressal Forum?

A:-The State Government  
B:-State electricity Regulatory Commission  
C:-The Licensee  
D:-Public Service Commission

Correct Answer:- Option-C

Question34:-What is the maximum allowable percentage of Neutral Voltage in a distribution system?

A:-2  
B:-3  
C:-4  
D:-5

Correct Answer:- Option-A

Question35:-What is the minimum horizontal clearance for a building adjacent to a 110 kV line?

- A:-2.5 m
- B:-4.6 m
- C:-1.2 m
- D:-2.9 m

Correct Answer:- Option-D

Question36:-Which Regulation of CEA (Measures relating to Safety and Electric supply) Regulations, 2010 prescribes earth guarding for overhead lines?

- A:-67
- B:-73
- C:-60
- D:-114

Correct Answer:- Option-B

Question37:-How many years' experience in practice of Electrical Engineering is required, besides other qualifications, for a person to be appointed as Electrical Inspector?

- A:-15
- B:-20
- C:-10
- D:-8

Correct Answer:- Option-C

Question38:-When a 66 kV line crosses a 110 kV line, what is the minimum clearance to be maintained?

- A:-6.79 m
- B:-4.58 m
- C:-6.04 m
- D:-3.05 m

Correct Answer:- Option-D

Question39:-When a 220 kV line crosses a 110 kV line, what is the minimum clearance to be maintained?

- A:-4.58 m
- B:-3.05 m
- C:-5.04 m
- D:-2.44 m

Correct Answer:- Option-A

Question40:-Which is the 'Normal period' of demand for electricity supply specified for the state?

- A:-10:00 hours to 17:00 hours
- B:-08:00 hours to 16:00 hours
- C:-18:00 hours to 22:00 hours
- D:-06:00 hours to 18:00 hours

Correct Answer:- Option-D

Question41:-What is the minimum horizontal clearance for a building adjacent to an 11 kV line?

- A:-2.5 m
- B:-4.6 m
- C:-3.7 m
- D:-1.2 m

Correct Answer:- Option-D

Question42:-What is the percentage of ruling tariff applicable for 'Peak period' usage of energy by an HT consumer?

- A:-200
- B:-150
- C:-100
- D:-125

Correct Answer:- Option-B

Question43:-Which is the IS for Fire Safety of Buildings?

- A:-3837/1976
- B:-1646/1997
- C:-3854/1997
- D:-732/1989

Correct Answer:- Option-B

Question44:-How much is the connected load above which Energy Conservation Building Code is to be implemented?

- A:-1000 kW
- B:-100 kW
- C:-500 kW
- D:-200 kW

Correct Answer:- Option-C

Question45:-What is the minimum horizontal clearance for a building adjacent to a 33 kV line?

- A:-2.5 m
- B:-4.6 m
- C:-1.2 m
- D:-2.0 m

Correct Answer:- Option-D

Question46:-What is the rate of Electricity Duty per unit consumption for Public Lighting in the state?

- A:-10 paise
- B:-12 paise
- C:-0 paise
- D:-20 paise

Correct Answer:- Option-C

Question47:-What is the allowable variations in voltage on the higher side of HT supply?

- A:-6%
- B:-8%
- C:-9%
- D:-12%

Correct Answer:- Option-C

Question48:-What is the minimum insulation value (in Mega Ohms) prescribed for HT installations?

- A:-10
- B:-100
- C:-50
- D:-5

Correct Answer:- Option-D

Question49:-What is the ground clearance for a bare 11 kV line elsewhere other than a street?

- A:-4.6 m
- B:-4.9 m
- C:-5.1 m
- D:-6.4 m

Correct Answer:- Option-A

Question50:-Which is the 'Peak hours' demand for electricity supply specified for the state?

- A:-10:00 hours to 17:00 hours
- B:-08:00 hours to 16:00 hours
- C:-18:00 hours to 22:00 hours
- D:-06:00 hours to 18:00 hours

Correct Answer:- Option-C

Question51:-When an 11 kV line crosses another 11 kV line, what is the minimum clearance to be maintained?

- A:-3.05 m
- B:-4.58 m
- C:-6.04 m
- D:-2.44 m

Correct Answer:- Option-D

Question52:-When a 220 kV AC line crosses a 400 kV DC line, what is the minimum clearance to be maintained?

- A:-6.79 m
- B:-4.58 m
- C:-6.04 m
- D:-3.05 m

Correct Answer:- Option-C

Question53:-With whom an appeal is to be filed against an order an electricity Inspector?

- A:-Deputy Chief Electrical Inspector
- B:-Chief Electrical Inspector
- C:-State Government
- D:-Central Government

Correct Answer:- Option-B

Question54:-How much is the Demand Charges per kVA demand per month for an HT 1(A) consumer?

- A:-Rs.300
- B:-Rs.500
- C:-Rs.400
- D:-Rs.600

Correct Answer:- Option-A

Question55:-Which is the IS for Switches for domestic use?

- A:-732/1989
- B:-2412/1975
- C:-3043/1987
- D:-3854/1997

Correct Answer:- Option-D

Question56:-Who is the competent authority to appoint Electricity Ombudsman of a state?

- A:-The licensee
- B:-The High Court
- C:-The State Electricity Regulatory Commission
- D:-The Chief Electrical Inspector

Correct Answer:- Option-C

Question57:-What is the rate of duty applicable for each unit of energy generated for self consumption?

- A:-12 paise
- B:-1.2 paise
- C:-2 paise
- D:-20 paise

Correct Answer:- Option-B

Question58:-When a 110 kV line crosses another 110 kV line, what is the minimum clearance to be maintained?

- A:-4.58 m
- B:-3.05 m
- C:-6.04 m
- D:-2.44 m

Correct Answer:- Option-A

Question59:-Who appoints Appellate authority?

- A:-Chief Electrical Inspector
- B:-State Government
- C:-Licensee
- D:-State Electricity Regulatory Commission

Correct Answer:- Option-B

Question60:-What is the maximum permissible number of 1.5 sq.mm single core cables that may be drawn into 20 mm Rigid non-metallic conduit?

- A:-4
- B:-6
- C:-8
- D:-10

Correct Answer:- Option-B

Question61:-What is the minimum factor of safety for stay wires?

- A:-1.5
- B:-2.0
- C:-2.5
- D:-3.0

Correct Answer:- Option-C

Question62:-What is the minimum cross sectional area of a trolley wire?

- A:-0.5 sq.mm
- B:-1.0 sq.mm
- C:-1.5 sq.mm
- D:-2.0 sq.mm

Correct Answer:- Option-A

Question63:-What is the minimum vertical clearance for a building under a 220 kV line?

- A:-2.5 m
- B:-4.6 m
- C:-5.5 m
- D:-2.0 m

Correct Answer:- Option-C

Question64:-Who is the ex-officio Secretary of Kerala State Electricity Licensing Board?

- A:-The Deputy Chief Electrical Inspector of Chief Electrical Inspectorate
- B:-The Power Secretary
- C:-Additional Chief Electrical Inspector
- D:-The Senior most Electrical Inspector

Correct Answer:- Option-A

Question65:-What is the mandatory clearance to be provided in front of an LT panel?

- A:-75 cm
- B:-80 cm
- C:-90 cm
- D:-100 cm

Correct Answer:- Option-D

Question66:-What is the minimum vertical clearance specified for a building under an LT line?

- A:-4.6 m
- B:-3.7 m
- C:-2.5 m
- D:-4.0 m

Correct Answer:- Option-C

Question67:-What is the time limit for restoration of supply in case normal fuse off calls in urban areas?

- A:-8 hours
- B:-10 hours
- C:-6 hours
- D:-12 hours

Correct Answer:- Option-C

Question68:-What is the minimum vertical clearance specified for a building under an HT line?

- A:-4.6 m
- B:-3.7 m
- C:-2.5 m
- D:-4.0 m

Correct Answer:- Option-B

Question69:-How much is the Diversity Factor for domestic Lighting?

- A:-1
- B:-2

- C:-1.5
- D:-0.75

Correct Answer:- Option-C

Question70:-Which of the following is not under the administrative control of the Department of Electrical Inspectorate?

- A:-Kerala State Electricity Licensing Board
- B:-Kerala State Electricity Board Ltd.
- C:-The Meter Testing and Standards Laboratory
- D:-Kerala State Cinema operators Examination Board

Correct Answer:- Option-B

Question71:-Which of the following 'IS' give recommendations on safety procedures and practices in Electricity work?

- A:-5216/1982
- B:-3034/1993
- C:-3043/1987
- D:-7689/1989

Correct Answer:- Option-A

Question72:-What is the minimum vertical clearance specified for a building under a 66 kV line?

- A:-4.6 m
- B:-3.7 m
- C:-2.5 m
- D:-4.0 m

Correct Answer:- Option-D

Question73:-How many months is the maximum validity normally for a temporary connection?

- A:-12
- B:-3
- C:-9
- D:-6

Correct Answer:- Option-A

Question74:-What is the maximum height at which the Emergency Switch for disconnecting supply to a Multi-storied building has to be located?

- A:-1.5 m
- B:-1.6 m
- C:-1.7 m
- D:-1.8 m

Correct Answer:- Option-C

Question75:-What is the maximum connected load that can be connected to a 415 V supply?

- A:-50 kVA
- B:-200 kVA
- C:-100 kVA
- D:-5 kVA

Correct Answer:- Option-C

Question76:-What is the estimated load, as per norms, for each 10 square meter of constructed area in a commercial installation?

- A:-1000 W
- B:-1500 W
- C:-2000 W
- D:-2500 W

Correct Answer:- Option-B

Question77:-Which section of Electricity Act 2003 contains Provisions relating to Safety and Electricity Supply?

- A:-33
- B:-63
- C:-83
- D:-53

Correct Answer:- Option-D

Question78:-Which of the following is not a general function of Central Electricity Regulatory Commission?

- A:-Build and Operate power generating stations
- B:-Determine tariff for inter state transmission of electricity
- C:-Regulate inter state transmission of Electricity
- D:-Specify Grid code having regard to Grid standards

Correct Answer:- Option-A

Question79:-What is the maximum Contract Demand allowed for a consumer availing 11 kv supply?

- A:-500 kVA
- B:-100 kVA
- C:-1000 kVA
- D:-3000 kVA

Correct Answer:- Option-D

Question80:-What is the percentage of permissible loading unbalance between phases of a Low voltage three phase consumer?

- A:-10
- B:-12
- C:-8
- D:-5

Correct Answer:- Option-D

Question81:-When a 220 kV line crosses another 220 kV line, what is the minimum clearance to be maintained?

- A:-3.05 m
- B:-4.58 m
- C:-6.04 m
- D:-2.44 m

Correct Answer:- Option-B

Question82:-How many days' notice is to be served to a consumer for disconnection of supply for non-payment of dues?

- A:-15
- B:-7
- C:-30
- D:-10

Correct Answer:- Option-A

Question83:-Which section of Electricity Act 2003, empowers formation of State Electricity Regulatory Commission

- A:-82
- B:-42
- C:-62
- D:-72

Correct Answer:- Option-A

Question84:-Who appoints the Appellate Tribunal for Electricity?

- A:-State Government
- B:-State Electricity Regulatory Commission
- C:-Central Government
- D:-Central Electricity Regulatory Commission

Correct Answer:- Option-C

Question85:-What is the maximum Contract Demand allowed for a consumer availing 33 kV supply?

- A:-5000 kVA
- B:-10000 kVA
- C:-15000 kVA
- D:-12000 kVA

Correct Answer:- Option-D

Question86:-Who is the Appropriate Authority for implementing Quality control Orders for electrical goods in the State?

- A:-State Electricity Regulatory Commission
- B:-Secretary, Industries Department
- C:-Chief Electrical Inspector
- D:-Chief Secretary

Correct Answer:- Option-C

Question87:-What is the maximum Contract Demand allowed for a consumer availing 110 kV supply?

- A:-40000 kVA
- B:-10000 kVA
- C:-15000 kVA
- D:-30000 kVA

Correct Answer:- Option-A

Question88:-Which Section of Electricity Act 2003 contains provision for establishing National Load Despatch Centre?

- A:-34
- B:-39
- C:-26
- D:-56

Correct Answer:- Option-C

Question89:-When an 11 kV line crosses a 110 kV line, what is the minimum clearance to be maintained?

- A:-4.58 m
- B:-3.05 m
- C:-6.04 m
- D:-2.44 m

Correct Answer:- Option-B

Question90:-What is the maximum span allowed for a Low Voltage overhead line at a road crossing?

- A:-65 m
- B:-80 m
- C:-70 m
- D:-75 m

Correct Answer:- Option-A

Question91:-What is the maximum number of full time members in Central Electricity Authority?

- A:-6
- B:-7
- C:-9
- D:-8

Correct Answer:- Option-D

Question92:-What is the Average Service Availability Index (ASAI) for rural areas?

- A:-97
- B:-97.5
- C:-98
- D:-98.5

Correct Answer:- Option-B

Question93:-What is the clearance above ground level for an HT overhead line across any street?

- A:-5.5 m
- B:-5.8 m
- C:-6.1 m
- D:-6.4 m

Correct Answer:- Option-C

Question94:-Which is the IS for earthing practices?

- A:-3646/1992
- B:-7662/1974
- C:-3043/1987
- D:-8884/1978

Correct Answer:- Option-C

Question95:-What is the permissible voltage drop at the end of a feeder cable?

- A:-4%
- B:-5%
- C:-10%
- D:-6%

Correct Answer:- Option-B

Question96:-How much is the approved power rating of a 16 A socket outlet?

- A:-800 W
- B:-1600 W
- C:-500 W
- D:-1000 W

Correct Answer:- Option-D

Question97:-How many service tapings can be taken off a support of an LT overhead line?

- A:-10
- B:-6
- C:-8
- D:-4

Correct Answer:- Option-D

Question98:-What is the clearance above ground level for an LT overhead line across any street?

- A:-5.5 m
- B:-6.1 m
- C:-5.8 m
- D:- 6.4 m

Correct Answer:- Option-C

Question99:-How many times the normal current is the permissible starting current of a 7.5 kW motor?

- A:-5
- B:-3
- C:-6
- D:-4

Correct Answer:- Option-B

Question100:-What is the minimum horizontal clearance for a building adjacent to a 66 kV line?

- A:-2.3 m
- B:-4.6 m
- C:-1.2 m
- D:-3.7 m

Correct Answer:- Option-A