

FINAL 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 Chi

- 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 lin

- 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 tra

- 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

- 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 E

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