

FINAL ANSWER KEY

Paper: Funtions of Electrical Inspectorate ... (Paper I)
Date of Examination 04-09-2019

Question1:-The appointment of Electrical Inspector is governed by _____ section of the Electricity Act 2003.

- A:-161
- B:-162
- C:-126
- D:-144

Correct Answer:- Option-B

Question2:-National Load Despatch Centre is established under _____ section of the Electricity Act 2003.

- A:-Subsection (1) of section 27
- B:-Subsection (2) of section 29
- C:-Subsection (1) of section 26
- D:-Subsection (4) of section 28

Correct Answer:- Option-C

Question3:-As per which Regulation of CEA... safety regulations 2010, designating of person(s) are made to operate and carry out the work on the Electrical Lines and apparatus

- A:-7
- B:-19
- C:-3
- D:-34

Correct Answer:- Option-C

Question4:-Regulation 24 of CEA... safety regulations 2010 insists

- A:-Distinction of different circuits
- B:-Earthing systems
- C:-Load sharing
- D:-Deposit of maps

Correct Answer:- Option-A

Question5:-Electrical safety officer is designated as per _____ regulation of CEA... safety regulations 2010.

- A:-5
- B:-12
- C:-31
- D:-48

Correct Answer:- Option-A

Question6:-Which regulation of CEA... safety regulations 2010 insists periodical inspection and testing of installations?

- A:-63
- B:-32
- C:-14
- D:-30

Correct Answer:- Option-D

Question7:-As per _____ regulation of CEA... Safety Regulations 2010, the consumer shall take precautions for safe custody of the equipments on his premises belonging to the supplier.

- A:-16(3)
- B:-13(3)
- C:-31(1)
- D:-46(5)

Correct Answer:- Option-B

Question8:-Which regulation of CEA... Safety Regulations 2010 governs the Handling of supply lines and apparatus?

- A:-12
- B:-50

C:-19

D:-65

Correct Answer:- Option-C

Question9:-The validity of scheme approval issued by Electrical Inspectorate Department is

A:-2 years

B:-5 years

C:-4 years

D:-3 years

Correct Answer:- Option-A

Question10:-Regulation 36 of CEA... Safety Regulations 2010 is applicable to the buildings having height

A:-15 metres

B:-more than 15 metres

C:-more than 16 metres

D:-10.5 metres

Correct Answer:- Option-B

Question11:-Regulation _____ of CEA... Safety Regulations 2010 insisting electrical contractor license for electrical installation work.

A:-32

B:-43

C:-66

D:-29

Correct Answer:- Option-D

Question12:-Which Regulation of CEA... safety regulation 2010 governs the actions to be done if a leakage on consumer's premise is suspected?

A:-11

B:-55

C:-34

D:-72

Correct Answer:- Option-C

Question13:-Notice of accidents to Electrical Inspector is insisted as per _____ section of the The Electricity Act - 2003.

A:-161

B:-165

C:-162

D:-156

Correct Answer:- Option-A

Question14:-As per which section of the Electricity Act 2003 Central Electricity Authority achieve powers to make regulations

A:-176

B:-177

C:-181

D:-185

Correct Answer:- Option-B

Question15:-The Electricity Act 2003 is not applicable to the state

A:-Assam

B:-Meghalaya

C:-Jammu and Kashmir

D:-Punjab

Correct Answer:- Option-C

Question16:-Section 70 of the Electricity Act - 2003 is related to the constitution of

A:-Central Regulatory Commission

B:-State Regulatory Commission

C:-Central Electricity Authority

D:-State Electricity Board

Correct Answer:- Option-A

Question17:-National Electricity Policy Plan insisted in _____ section of the Electricity Act 2003.

A:-3

B:-13

C:-52

D:-40

Correct Answer:- Option-A

Question18:-The electricity supply code is insisted in _____ section of The Electricity Act 2003.

A:-42

B:-48

C:-74

D:-50

Correct Answer:- Option-D

Question19:-The electrical system setup to generate power and distribute electricity in a specified area without connection to the grid is named as

A:-stand by system

B:-cogeneration system

C:-independent system

D:-stand alone system

Correct Answer:- Option-D

Question20:-Non-discriminatory provision for the use of transmission lines or similar facilities by another licensee or consumer engaged in generation of electricity is termed as

A:-power access

B:-wheeling

C:-inter access

D:-open access

Correct Answer:- Option-D

Question21:-State Load despatch centre established under _____ section of The Electricity Act 2003.

A:-Subsection 3 of section 26

B:-Subsection 1 of section 33

C:-Subsection 1 of section 31

D:-Subsection 2 of section 32

Correct Answer:- Option-C

Question22:-Control and transmission of electricity is referred in which section of the Electricity Act 2003

A:-Section 58

B:-Section 54

C:-Section 67

D:-Section 101

Correct Answer:- Option-B

Question23:-Provision as to the opening up of streets, railways etc. detailed in _____ section of the Electricity Act 2003.

A:-99

B:-110

C:-67

D:-163

Correct Answer:- Option-C

Question24:-The class of CT to be used by an HT consumer in TOD meter, as per current guideline is _____.

A:-0.25

B:-0.2

C:-0.5

D:-0.55

Correct Answer:- Option-A

Question25:-Which Regulation of CEA... Safety Regulation - 2010 governs the cutting of soil near a transmission tower?

A:-75(2)

B:-73(3)

C:-65(3)

D:-27(1)

Correct Answer:- Option-C

Question26:-For over voltage protection of transformer, the tripping shall be given normally to

A:-secondary side

B:-both primary side and secondary side

C:-primary side

D:-none of the above

Correct Answer:- Option-C

Question27:-The minimum size of copper wire used for electrical wiring is

A:- 1.5 mm^2

B:- 0.75 mm^2

C:- 2.5 mm^2

D:- 4 mm^2

Correct Answer:- Option-A

Question28:-The current density of steel (GI) taken for earthing design is

A:- 118 A/mm^2

B:- 73 A/mm^2

C:- 46 A/mm^2

D:- 100 A/mm^2

Correct Answer:- Option-C

Question29:-The new IS/IEC code for lightning protection is

A:-5790

B:-9968

C:-2082

D:-62305

Correct Answer:- Option-D

Question30:-The minimum vertical clearance required for a building under an existing 200 KV overhead line is

A:-4.6 metres

B:-5.5 metres

C:-4 metres

D:-7.3 metres

Correct Answer:- Option-B

Question31:-Functions and Duties of Central Electricity Authority is envisaged in _____ section of The Electricity Act 2003.

A:-176

B:-73

C:-35

D:-87

Correct Answer:- Option-B

Question32:-Provision relating to safety and electricity supply measures specified in which section of the Electricity Act 2003

A:-16

B:-94

C:-180

D:-53

Correct Answer:- Option-D

Question33:-To determine the tariff for electricity is a function of _____.

A:-State Regulatory Commission

B:-Central Regulatory Commission

C:-Distribution Licensee
D:-Transmission Licensee
Correct Answer:- Option-A

Question34:-Appellate Tribunal for Electricity is established under _____ section of the Electricity Act 2003.

A:-65
B:-110
C:-7
D:-154

Correct Answer:- Option-B

Question35:-Duration of fault current for earthing design of HT installation is taken as

A:-40 milli seconds
B:-3 seconds
C:-1.5 seconds
D:-2 seconds

Correct Answer:- Option-B

Question36:-Indian standard 'guide for electrical layout in residential buildings' is

A:-4648
B:-3151
C:-6381
D:-732

Correct Answer:- Option-A

Question37:-A Restricted Earth Fault Relay usually represented by the device designation number

A:-59
B:-44
C:-46
D:-64

Correct Answer:- Option-D

Question38:-Distance protection relay is applicable to

A:-Power transformers
B:-Generators
C:-Transmission lines
D:-HV motors

Correct Answer:- Option-C

Question39:-An on-grid solar power plant essentially requires

A:-Earth Fault Protection
B:-Differential Protection
C:-Overvoltage protection
D:-Anti islanding protection

Correct Answer:- Option-D

Question40:-Maximum number of members to be appointed in the governing council of Bureau of Energy Efficiency is

A:-20
B:-26
C:-30
D:-15

Correct Answer:- Option-B

Question41:-Which section of the Energy Conservation Act - 2001 governs the powers of central government to facilitate and enforce efficient use of energy and its conservation?

A:-14
B:-3
C:-8
D:-12

Correct Answer:- Option-A

Question42:-Regulation 32 of CEA... Safety Regulations - 2010 governs the installation and testing of

A:-Motors

B:-Power transformers

C:-Generating units including renewable sources

D:-EHT lines

Correct Answer:- Option-C

Question43:-Who is making the Kerala Electricity Supply Code?

A:-KSEBL

B:-State Government

C:-Central Government

D:-KSERC

Correct Answer:- Option-D

Question44:-The Kerala State Electricity Supply Code 2014 made under Section 50 read with section _____ of the Electricity Act 2003 and all other powers enabling in this behalf.

A:-181

B:-129

C:-172

D:-104

Correct Answer:- Option-A

Question45:-The voltage specified as extra high voltage in Kerala Electricity Supply Code - 2014 is the voltage exceeding

A:-11 KV

B:-66 KV

C:-110 KV

D:-33 KV

Correct Answer:- Option-D

Question46:-The low tension consumed specified in Kerala Electricity Supply Code - 2014 is a consumer availing electricity at voltage

A:-230 V

B:-415 V

C:-Voltage not exceeding 1000 V

D:-Voltage not exceeding 11 kV

Correct Answer:- Option-C

Question47:-Regulation that governs the tapping of service lines from overhead lines is

A:-47

B:-71

C:-65

D:-18

Correct Answer:- Option-B

Question48:-Height of stay insulator from ground level shall not be less than _____.

A:-5 metres

B:-3 metres

C:-7 metres

D:-4 metres

Correct Answer:- Option-B

Question49:-The minimum statutory horizontal clearance required between a building an existing 110 kV overhead line shall be

A:-3.7 m

B:-2.6 m

C:-2.9 m

D:-4.6 m

Correct Answer:- Option-C

Question50:-All generators with rating _____ and above shall be protected against earth fault or leakage.

A:-1000 kvA

B:-80 kvA

C:-125 kvA

D:-100 kvA

Correct Answer:- Option-D

Question51:-Which regulation of CEA... Safety Regulation - 2010 insist relevant tests for electrical installations exceeding 650 V which has been disconnected for six months or more before reconnection?

A:-46(3)

B:-35(2)

C:-23(3)

D:-30(3)

Correct Answer:- Option-A

Question52:-Regulation of CEA... Regulation - 2010 allowing deviations by central/state government is

A:-115

B:-116

C:-76

D:-67

Correct Answer:- Option-B

Question53:-Which regulation of CEA Regulation 2010 insist protection against electromagnetic interference?

A:-77

B:-72

C:-68

D:-49

Correct Answer:- Option-A

Question54:-As per _____ regulation of CEA.... Safety Regulation - 2010 no rods, pipes or similar materials shall be brought with in the flash over distance of bare live conductors or lines.

A:-63(3)

B:-94(2)

C:-64(2)

D:-46(4)

Correct Answer:- Option-C

Question55:-Which regulation of CEA... Safety Regulation - 2010 insist earth guarding for rendering the line electrically harmless in case it breaks

A:-53

B:-73

C:-83

D:-80

Correct Answer:- Option-B

Question56:-Regulation of CEA...Safety Regulations - 2010 governs the condition of unused overhead lines is

A:-5

B:-37

C:-13

D:-75

Correct Answer:- Option-D

Question57:-The minimum depth of laying of an underground cable above 33 kV is

A:-1 m

B:-1.2 m

C:-1.5 m

D:-2 m

Correct Answer:- Option-B

Question58:-As per which Regulation of CEA... Safety Regulation 2010, approval by Electrical Inspector is issued for HT electrical installations

A:-43

B:-32

C:-52

D:-42

Correct Answer:- Option-A

Question59:-Which Regulation of CEA... Safety Regulations - 2010 insisting the panels to be painted with the description on its identification at front and at rear?

A:-82(3)

B:-19(6)

C:-13(3)

D:-115(3)

Correct Answer:- Option-B

Question60:-Which regulation of CEA... Safety Regulations - 2010 insisting the interlocks and protection for use of electricity at voltage exceeding 650 V?

A:-79

B:-47

C:-51

D:-45

Correct Answer:- Option-D

Question61:-_____ of transformers only shall be used for installations inside the residential or commercial buildings.

A:-oil type

B:-oil type or dry type

C:-dry type

D:-none of the above

Correct Answer:- Option-C

Question62:-The percentage impedance of a distribution transformer is generally of the order of

A:-5%

B:-10%

C:-8%

D:-13%

Correct Answer:- Option-A

Question63:-Which section of the Electricity Act - 2003 governs the grant of licence

A:-23

B:-74

C:-14

D:-121

Correct Answer:- Option-C

Question64:-As per CEA... Safety Regulations - 2010, the permitted number of joints in a span of an overhead line is _____.

A:-2

B:-4

C:-3

D:-1

Correct Answer:- Option-D

Question65:-Which Regulation of CEA... Safety Regulations - 2010 governs the supply to luminous tube sign installations of voltage exceeding 650 V but not exceeding 33 kV?

A:-52

B:-20

C:-108

D:-29

Correct Answer:- Option-A

Question66:-The statutory minimum ground clearance required for a 33 kV overhead line erected across a street is

A:-7.2 m

B:-6.1 m

C:-5.8 m

D:-4.6 m

Correct Answer:- Option-B

Question67:-Which regulation of CEA... Safety Regulations - 2010 governs the maximum interval between supports?

A:-60

B:-62

C:-33

D:-67

Correct Answer:- Option-D

Question68:-Theft of Electricity is specified in which section of the Electricity Act - 2003

A:-149

B:-135

C:-92

D:-23

Correct Answer:- Option-B

Question69:-Single phase voltage level specified in Kerala State Electricity Supply Code - 2014 is

A:-240 V

B:-220 V

C:-230 V

D:-250 V

Correct Answer:- Option-A

Question70:-Unauthorised use of electricity is specified in which section of the Electricity Act - 2003

A:-100

B:-58

C:-126

D:-92

Correct Answer:- Option-C

Question71:-Rural Area specified in Kerala Electricity Supply code - 2014 is an area comprising

A:-grama panchayat

B:-municipality

C:-corporation

D:-none of the above

Correct Answer:- Option-A

Question72:-Which is an electrical distribution license in Kerala?

A:-Kozhikodu Corporation

B:-Kollam Corporation

C:-Cochin Corporation

D:-Thrissur Corporation

Correct Answer:- Option-D

Question73:-As per Kerala Electricity Supply Code - 2014 the allowable contract demand for a HT consumer based on demand based metering is

A:-2500 KVA

B:-3000 KVA

C:-5000 KVA

D:-6000 KVA

Correct Answer:- Option-B

Question74:-As per the Kerala Electricity Supply Code - 2014 the KW load equivalent to 1 HP is

A:-0.75

B:-0.735

C:-0.746

D:-0.764

Correct Answer:- Option-C

Question75:-Total allowable load on a power subcircuit is

A:-3000 W

B:-2000 W

C:-5000 W

D:-2500 W

Correct Answer:- Option-A

Question76:-The India standard "Guide for safety procedures and practices in electrical work" is

A:-1860

B:-2274

C:-900

D:-5216

Correct Answer:- Option-D

Question77:-The Indian standard "switches for domestic and similar purposes" is

A:-3854-1988

B:-3481-1966

C:-4250-1980

D:-3725-1966

Correct Answer:- Option-A

Question78:-What is the minimum statutory horizontal clearance required for a building from an existing 11 kV overhead line?

A:-1.4 m

B:-2.3 m

C:-1.2 m

D:-2 m

Correct Answer:- Option-C

Question79:-What is the device designation number for AC circuit breaker?

A:-51

B:-52

C:-55

D:-60

Correct Answer:- Option-B

Question80:-What is the device designation number for an over voltage relay?

A:-64

B:-53

C:-76

D:-59

Correct Answer:- Option-D

Question81:-What is the clearance to be provided behind the switch board?

A:-2 m

B:-40 cm

C:-60 cm

D:-Either < 20 cm > 75 cm

Correct Answer:- Option-D

Question82:-The energy conservation activities in Kerala is governed by

A:-KSEBL

B:-Electrical Inspectorate

C:-EMC Kerala

D:-CEA

Correct Answer:- Option-C

Question83:-What is the Average Service Availability Index specified by Kerala State Electricity Regulatory Commission in Urban Areas of Kerala?

- A:-98%
- B:-97.5%
- C:-95%
- D:-99%

Correct Answer:- Option-A

Question84:-For parallel operation of transformers one essential condition is

- A:-Same secondary current
- B:-Same voltage ratio
- C:-Same primary current
- D:-Different percentage impedance

Correct Answer:- Option-B

Question85:-What is the minimum separation distance between an underground telecommunication line and a power cable above 33 kV?

- A:-1 m
- B:-0.6 m
- C:-0.5 m
- D:-1.2 m

Correct Answer:- Option-B

Question86:-The section _____ of the Electricity Act - 2003 insists the rules and regulations to be laid before the parliament.

- A:-155
- B:-149
- C:-179
- D:-127

Correct Answer:- Option-C

Question87:-If the fault current exceeds _____ kA plate earth electrodes shall be used.

- A:-10 kA
- B:-6 kA
- C:-3 kA
- D:-20 kA

Correct Answer:- Option-B

Question88:-The section _____ of the Electricity Act - 2003 insists the installation of a correct meter.

- A:-55
- B:-148
- C:-119
- D:-63

Correct Answer:- Option-A

Question89:-Which section of the Electricity Act 2003 insists the specification of different standards of performance by licence

- A:-114
- B:-61
- C:-58
- D:-52

Correct Answer:- Option-C

Question90:-As per which section of the Electricity Act 2003, state government acquire powers to make rules

- A:-72
- B:-6
- C:-133
- D:-180

Correct Answer:- Option-D

Question91:-If the transformer capacity is 1000 KVA and above, the secondary side control is

- A:-moulded case circuit breaker

B:-miniature circuit breaker

C:-switch fuse unit

D:-air circuit breaker

Correct Answer:- Option-D

Question92:-What is the minimum front clearance required for a panel having draw out type breaking?

A:-1.1 m

B:-0.75 m

C:-2 m

D:-1.5 m

Correct Answer:- Option-D

Question93:-Which section of the Electricity Act 2003 related to the functions and duties of Central Electricity Authority?

A:-180

B:-138

C:-73

D:-25

Correct Answer:- Option-C

Question94:-As per the Kerala Electricity (Intimation of Accident) Rules 2005 an accident should be intimated to the Electrical Inspector in prescribed form with its _____ hours of the knowledge of the occurrence of accidents.

A:-48

B:-72

C:-24

D:-12

Correct Answer:- Option-A

Question95:-The form for reporting of electrical accidents involving human beings to Electrical Inspector is _____.

A:-Form B

B:-Form A

C:-Form D

D:-Form C

Correct Answer:- Option-B

Question96:-The Indian Standard for motor capacitors _____.

A:-3553

B:-8923

C:-13364

D:-2993

Correct Answer:- Option-D

Question97:-A gas pressure relay is used in

A:-Transformer

B:-Motor

C:-Capacitors

D:-Generator

Correct Answer:- Option-A

Question98:-The capacity of solar power plant is usually specified in

A:-KW

B:-KWp

C:-KVARh

D:-KVA

Correct Answer:- Option-B

Question99:-As per CEA... Safety Regulations - 2010 a "linked switch" means a switch unit with all the poles _____ linked so as to operate simultaneously.

A:-electrically

B:-electronically

C:-mechanically

D:-none of the above

Correct Answer:- Option-C

Question100:-The differential protection is required for a transformer of capacity _____, as per CEA... Safety Regulations - 2010.

A:-Less than 10 MVA

B:-10 MVA and above

C:-1 MVA

D:-5 MVA

Correct Answer:- Option-B