

MODULAR EMPLOYABLE SKILLS (MES)

under Skill Development Initiative Scheme (SDIS)
Directorate General of Employment & Training, Ministry of Labour & Employment, Government of India



Assessment conducted by – INDIA SKILLS PVT. LTD., NEW DELHI

ELECTRICAL

(Basic Electrical Training - ELE101)

Theory – Maximum marks (25X2 =50)

Duration – 30 minutes

Marks Scored -

Set No.-ELE101_E_6

NAME:

FATHER'S NAME:

DATE:

CENTRE:

Each question below carries two (2) marks

1. A multimeter cannot measure.....
A. Current B. Potential difference C. Capacitance D. Resistance.
2. When the ohmmeter prods are shorted, the meter should show.....
A. Zero ohms. B. Infinite ohms. C. 25 ohms. D. 1K ohms.
3. The value of the resistor for given colour code (Yellow Violet Yellow, Silver) is _____
A. 470 ohms B. 474 ohms C. 470 Kohms D. 4.7 ohms
4. Full form of FET is ____
A. Full effect transistor B. Fine effect transistor
C. Field effect transistor D. Full emittor transistor
5. How can you extend the backup time of an UPS system?
A. Increase the capacity of the battery. B. Decrease the battery terminal voltage.
C. Change the type of battery. D. Decrease the battery current rating.
6. First aid/artificial respiration recovers a victim temporarily from his sickness. What is the immediate step you have to do?
A. Allow him to do his work/duty. B. Call a doctor for treatment.
C. Give heavy/solid food to eat. D. Allow him to do some body warming exercise.
7. Electron volt is the unit of
A. Voltage B. current C. Energy D. Ohms
8. What is the minimum change over time allowed in a computer to prevent its reboot in case of transfer of load takes place in an OFF line UPS?
A. less than 3 ms. B. less than 5 ms. C. less than 7 ms. D. less than 10 ms.
9. A zener is operated in the _____ region
A. forward B. reverse C. middle D. high
10. The IC 3525 used in OFF line UPS is an...
A. amplifier. B. regulator. C. oscillator. D. detector.
11. Which output waveform from UPS offer a better performance?
A. quasi-square wave. B. square wave. C. sine wave. D. saw tooth wave.
12. In a line interactive UPS, the battery charging voltage is provided by...
A. AC mains B. inverter C. transfer switch D. current transformer.
13. When using a Megger you should avoid touching
A. the positive lead B. the negative lead C. both leads at the same time D. either lead.
14. The purpose of the- capacitor used at the input side of a three terminal regulators is to
A. filter the ripple. B. prevent the oscillations.
C. improve the ripple rejection ratio. D. block dc current.
15. What is the maximum output load of a 2.5 KVA UPS having a power factor of 0.7?

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ELECTRICAL

(Basic Electrical Training - ELE101)

Practical – Maximum marks (150)

Marks Scored –

Duration – 2½ hours

Set No.- ELE101_E_6

NAME:

FATHER'S NAME:

DATE:

CENTRE:

Each question below carries thirty (30) marks

Note:

(i) Draw circuit diagram wherever necessary

(ii) List out materials/instruments required for every question.

1. To test and prepare terminal leads in 3 core PVC sheathed cable suitable for three pin plug and connect it.
2. Identify the polarities of the A.C Single phase supply system in a DPIC switch by using a test lamp and connect incoming and outgoing leads.
3. Measure voltage, current and power dissipated by a 240v, 1 kw immersion heater.
4. Prepare a domestic main board earth spike and measure the earth resistance using multimeter.
5. Wire up to control a lamp and 3 pin socket outlet by PVC conduit system.

Marking System:

Domain Tested	Manipulative Skills to Handle Tools & Equipments	Speed in doing work	Accuracy maintained	Quality in workmanship	Sequence of Performance	Economical use of materials	Ability to follow Manuals/Written Instructions	Neatness & House keeping
Weightage	10	10	10	10	10	10	10	5
Marks Scored								

Note for Assessors: Each candidate may be tested on one or two questions randomly and the question has to be ticked on the question paper for which the candidate has been tested and accordingly marks are to be mentioned in the above rubric given.

(Signature of the Assessor)

(Signature of the Candidate)

Answer Key ELE101 E 6

1. C
2. A
3. C
4. C
5. A
6. B
7. c
8. b
9. b
10. c
11. c
12. b
13. d
14. b
15. d
16. Unawareness of danger
 - Disregard for Safety
 - Negligence
 - Lack of understanding of proper safety procedures
 - Untidy condition of work place
 - Inadequate light and ventilation
 - Improper use of tools
17. A metal plate, pipe or conductor electrically connected to the general mass of earth
18. Metal Oxide Semiconductor Field Effect Transistor
19. standard wire gauge and Outside Micrometer
20.
 1. No current flows through the circuit
 2. Full supply voltage appears across the open
 3. Power consumption is zero
21. 6 ohms
22. C
23. B
24. C
25. A