CHRISTIAN SOCIAL SERVICES COMMISSION (CSSC)

NORTHERN ZONE JOINT EXAMINATIONS SYNDICATE (NZ-JES)



FORM TWO PRE-NATIONAL ASSESSMENT AUG 2025

Electrical installation

MARKING SCHEME 1

1. 1@%

i	ii	iii	iv	V	vi	vii	viii	ix	X
D	C	В	C	A	D	В	C	A	D

2. 1@%

i	ii	Iii	iv	V
F	В	С	Н	Е

3.i series provide dim light while parallel it produce bright light

2@%

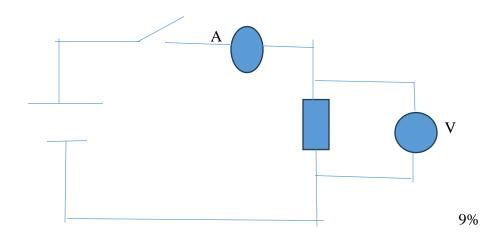
ii. series have high voltage while parallel it provide constant potential difference

iii. used to connect device in the only one path parallel it connect load from difference branches or way

iv make circuit operation dependently while parallel if operate load independently

v. rt=r1 + r2 while parallel 1/rt= 1/r1 + 1/r2

4.



5 .Safety gear

- i. Safety boat
 - Used to protect feet against sharp edge
- ii. Overall

Used to protect body in general

iii. Muffle

Used to protect the ear against the noise

2@%

- iv. Mask
 - Used to protect face against face
- v. Goggles

Used to protect against eyes

6. five classes

Class A

Medium solid material

Class B

Medium liquid material

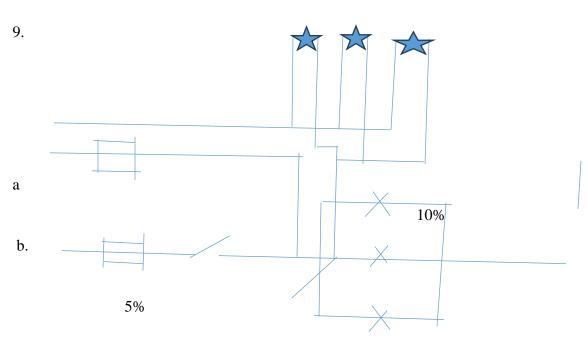
Class C 9%

Medium gases

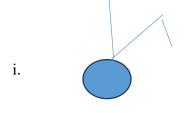
Class D

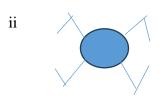
	metai	
Class f		
Medium	cooking oil	
7. IEE reg	gulation A2	3%
i. area flo	or is 50m^2	
ii. size of	conductor is 4mm ²	
iii. rating	of overcurrent 30A	
IEE regul	ation A3	3%
i. ii. iii.	Maximum area served is 20m ² Size of the conductor is 2.5mr Rating of overcurrent is 20A	_
B. reason		
Were inst	all thermostat in the oven circui	t in order to regulate the heat in the device
	call thermostat in the oven circuit done to extend life of the machin	-
8 (a).i. it		-
8 (a).i. it ii. it done	done to extend life of the machin	-
8 (a).i. it ii. it done	done to extend life of the machine to increase reliability	ne 3%
8 (a).i. it ii. it done iii.It done iv.	done to extend life of the machine to increase reliability to increase efficiency	ne 3%
8 (a).i. it ii. it done iii.It done iv.	done to extend life of the machine to increase reliability to increase efficiency it done to improve occurrence section ii. Testing iii. Repair	ne 3%
8 (a).i. it ii. it done iii.It done iv. b) i. insp c) testi	done to extend life of the machine to increase reliability to increase efficiency it done to improve occurrence section ii. Testing iii. Repair	ne 3%
8 (a).i. it ii. it done iii.It done iv. b) i. insp c) testi	done to extend life of the machine to increase reliability to increase efficiency it done to improve occurrence section ii. Testing iii. Repairing tion polarity	ane 3%
8 (a).i. it ii. it done iii. It done iv. b) i. insp c) testi i. verifica ii. earth to	done to extend life of the machine to increase reliability to increase efficiency it done to improve occurrence section ii. Testing iii. Repairing tion polarity	ane 3%
8 (a).i. it ii. it done iii. It done iv. b) i. insp c) testi i. verifica ii. earth to	done to extend life of the machine to increase reliability to increase efficiency it done to improve occurrence section ii. Testing iii. Repairing tion polarity	ane 3%
8 (a).i. it ii. it done iii. It done iv. b) i. insp c) testi i. verifica ii. earth to iii. ring p iv insulat	done to extend life of the machine to increase reliability to increase efficiency it done to improve occurrence section ii. Testing iii. Repairing tion polarity esting ower circuit testing	ane 3%

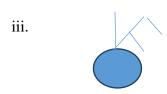
Medium metal

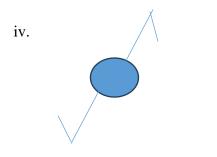


10. symbol

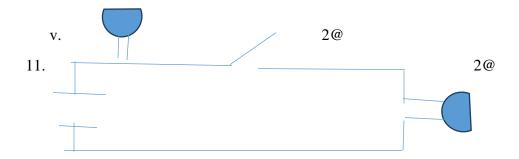








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11 (b) uses of buzzer

- i. Uses household appliance
- ii. Used in siren
- iii. Used in fire alarm
- iv. Used in timers operation

3%