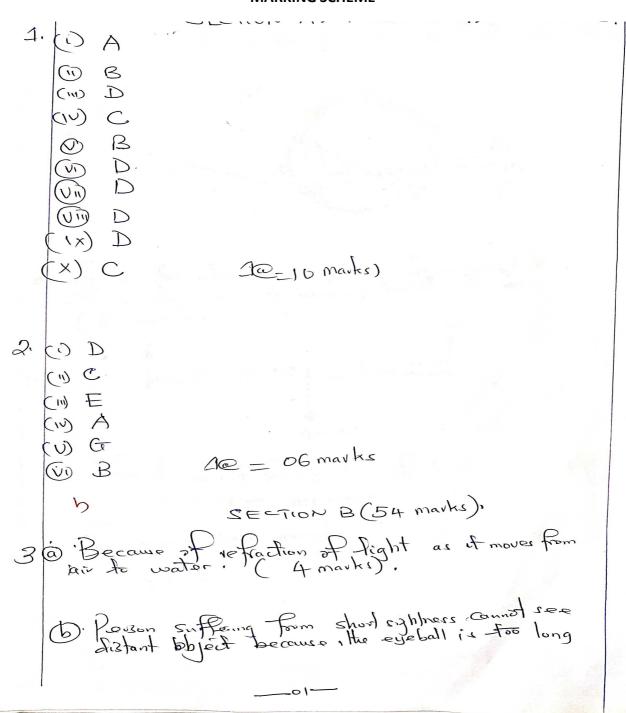
## CHRISTIAN SOCIAL SERVICES COMMISSION (CSSC) NORTHERN ZONE JOINT EXAMINATIONS SYNDICATE (NZ-JES)



## FORM FOUR PRE – NATIONAL EXAMINATION AUGUST 2025 PHYSICS 1 MARKING SCHEME



from the front to back in companion with the radius of curvature of the cornea cames the rays of light from an object to be formed infront of retina (2 marles) Object 4. (a) Since the almosphene precent decrease at the top
of mountain, also the moreum, level will decreases,
(4 marks). Sum of upward forces = Sum of downward forces(01) X + 7 = 1000 N' (01) Sum of anticolouise moments = Sum of clockwise moments. X(9m) = 1000NX5m. 9xm= 5000 Nm. X = 555.56N'(01)

$$\sqrt{-1000} - 555.56$$

$$= 444.440$$

Slanted height 10m

(1) Wividone againt & gravitational force Load x Load Autance 30x10x 10'
= 3000 J. (01)

(ii) Since No fration,
Workdone of moving a body = Effect x Effect distance +
Sin 15°= tem 10 m fration workdone is

Santach height = 10 m

Sin 15°.

= 15.38 m. (01)

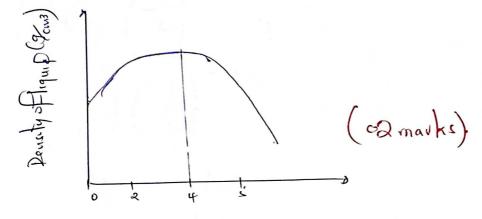
Workdone = (100 N x 15.38) + 2000

- 3538 J. (01)

(b) No, there are forces acting on it (02)

Fr. (02).

6. a As you merène the temperature, the dentity of liquid decreases due to increase in volume of liquid (02)



Temperature in (OC).

-04-

7 (a) from

No 
$$+1$$

No  $+1$ 

7 (b)  $f_{nom}$   $f = \frac{n}{2l} \sqrt{J_H}. \qquad (02)$ P= 3 / 18N X0.75 81.15/7. (01) 8 a Diffelo in havigation

(iii) Ked for generation of electristy. (Four points = offmarks) Desmitter

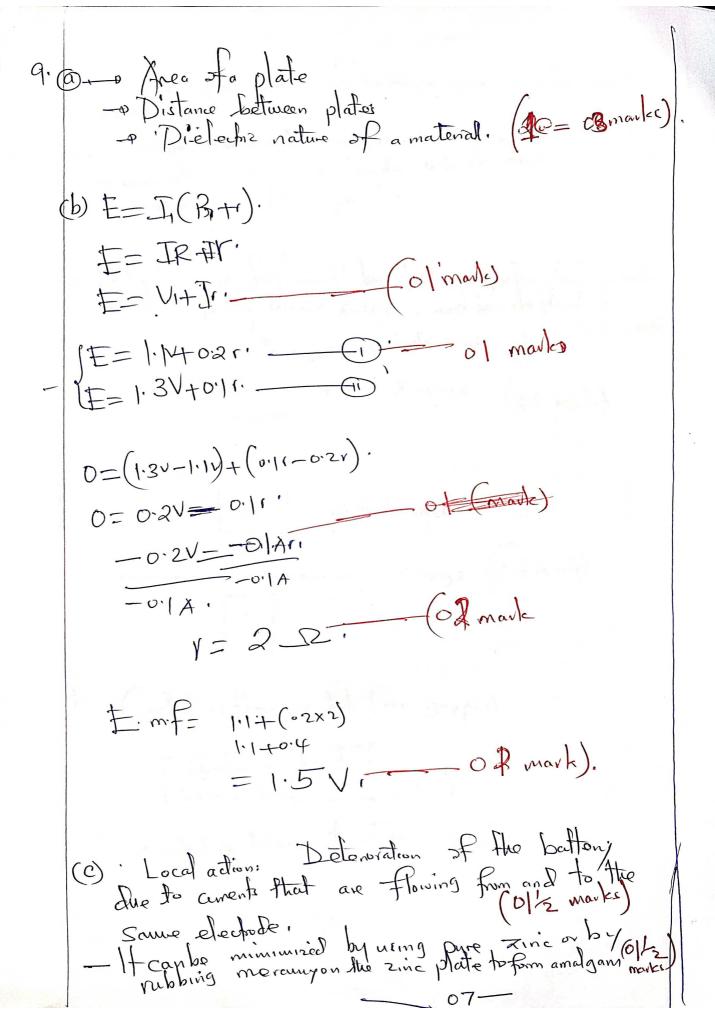
Death

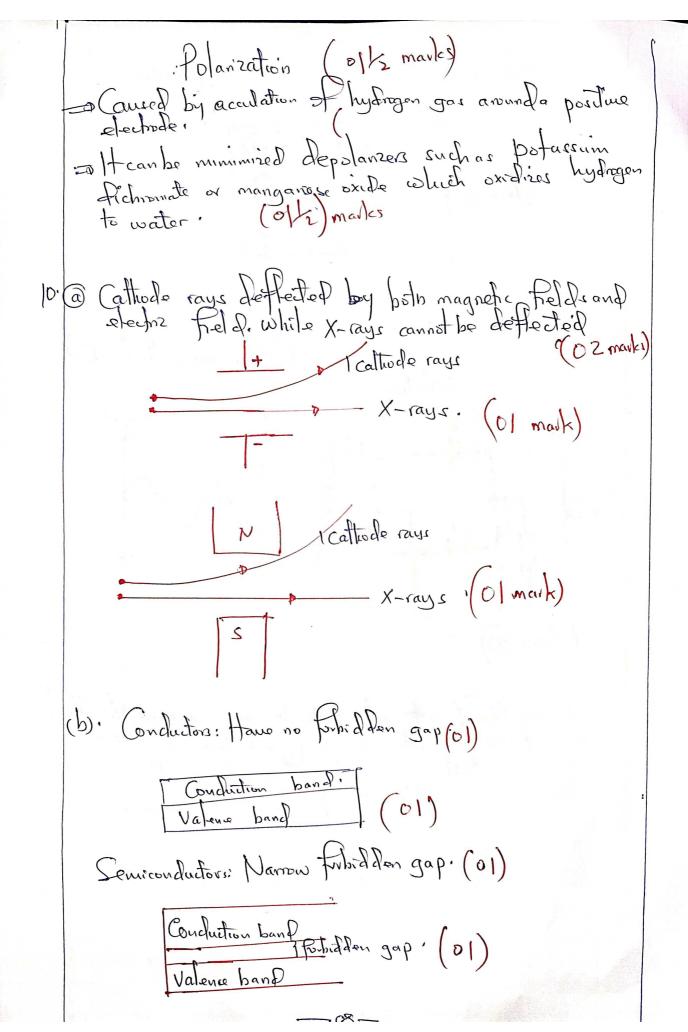
Death

Desmitter

Desmitter

Death Avie points = 05 marky





Insulators: How wide tobodden gap. (Ormant) Conduction band Forbiblion gap. (01 mark). (c) full wave redification (05 marks) 11. a Microwaws are absorbed by the Food molecules.

The absorbed energy causes the molecules to vibrate rapidly producing themal energy that cooks or warms the Food. (03 marks). (b) Name of the device electric bell. (01 marks).

D - Armature (01 mark) E: Contact break (of marks).

Is mechanisms When cument is suntified on, it flows through the circuit and soft inon core become magnetized. The magnetized inon core attract the soft Iron amature which the sham and then hammer hits gong The Contact break which makes no conventement flowing and soft non Core domagnetised and return back and the contact allowing curent to fow agains and soft non become magnetised flow agains and soft non become magnetised and attract the armature to but the gong. to produce sound. The proces continuously repeatly. (03 marks). To Heat lost due to hearing effect c) - a Copper windings: Minimized by using thickwire amounts: Reduced by laminating the inon (of z marks)

Cove. (of z marks) - Hysteresis: We soft inon which early be magnetised and Lemagnetised offmake) - Flux linkage: Reduced by winding secondary
(oci) over primary coil (Itemarks) Note: Cause - oolz. ? explanation - oolz. ? Minimization = oolz. . . .