### **Useful Equations**

The following useful equation may be unfamiliar to some students:

 $ho = {}^m/_V$  density = mass  $\div$  volume

 $\Delta E = m \times L$  energy transferred = mass x specific latent heat

 $p = m \times v$  momentum = mass x velocity

 $P = I^2 \times R$  Power dissipated in a resistor = current <sup>2</sup> x resistance

Work = force  $\times$  distance

Circumference of a circle  $= 2\pi r$ 

## The following constants should be used

 $g = 9.8 \, N/kg$  gravitational field strength on Earth

### **Unfamiliar units**

1 metric tonne = 1000 kg

# 2024 IPC Answer Booklet (online)

Name:	School:	Account Number:
Section A:	Multiple choice questions. (10	marks)
Please re	cord your answers from 1 to 10	on the exam platform.
Section B:	Short written questions ( 10 ma	rks)
Question 1	1	

Question 12
Section C: Extended numerical questions (30 marks)
Question 13
a)
b)

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c)	
	θ =
	0 –
	<i>v</i> =
d)	
/	
e)	
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.....

f)	
g)	

# **Question 14** a) b) c) d) e)

f)
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g)
h)

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