

**JAWAPAN
FIZIK KERTAS 1**

1.	C		11.	D		21.	D		31.	B	
2.	D		12.	D	Pengiraan ditunjukkan	22.	A	Pengiraan ditunjukkan	32.	C	
3.	A		13.	C		23.	D		33.	A	
4.	C		14.	C		24.	C		34.	B	
5.	D		15.	A		25.	B		35.	D	
6.	B		16.	B		26.	C		36.	D	Pengiraan ditunjukkan
7.	B		17.	D	Pengiraan ditunjukkan	27.	D		37.	A	
8.	A		18.	B	Pengiraan ditunjukkan	28.	A	Pengiraan ditunjukkan	38.	A	
9.	B	Pengiraan ditunjukkan	19.	B		29.	C		39.	C	
10.	B		20.	A		30.	D	Pengiraan ditunjukkan	40.	D	Pengiraan ditunjukkan

SOALAN PENGIRAAN

9.	$\frac{T_B^2}{r_B^3} = \frac{T_M^2}{r_M^3}$ $r_M^3 = \frac{T_M^2 \times r_B^3}{T_B^2} = \frac{11.9^2 \times (1.5 \times 10^{11})^3}{1.0^2} = 4.7793 \times 10^{35}$ $r_M = \sqrt[3]{4.7793 \times 10^{35}} = 7.82 \times 10^{11} \text{ m}$
12.	$P_1 V_1 = P_2 V_2$ $P_2 = \frac{P_1 V_1}{V_2} = \frac{105000 \times 7.5}{4.3} = 183140 \approx 183 \text{ kPa}$

17.	$\frac{1}{f} = \frac{1}{u} + \frac{1}{v}$ $\frac{1}{v} = \frac{1}{f} - \frac{1}{u} = \frac{1}{15} - \frac{1}{20} = \frac{20 - 15}{300} = \frac{5}{300}$ $v = \frac{300}{5} = 60 \text{ cm}$
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18.	$\frac{\sin r}{\sin i} = \frac{1}{\sin c}$ $\frac{\sin 60}{\sin 35.5} = \frac{1}{\sin c}$ $1.49 = \frac{1}{\sin c}$ $\sin c = \frac{1}{1.49} = 0.6711$ $c = \sin^{-1} 0.6711 = 42.15^\circ$
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22.	$F = T - W$ $ma = T - mg$ $a = \frac{T - mg}{m} = \frac{100 - 6(9.81)}{6} = 6.86 \text{ ms}^{-2}$
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28.	$R = \frac{V}{I} = \frac{9}{1.5} = 6 \Omega$ rintangan mentol = $6 \Omega - 5 \Omega = 1 \Omega$ $\frac{1}{R} = \frac{1}{5} + \frac{1}{10}$ $R = 3.33 \Omega$ $R = 3.33 + 1 = 4.33 \Omega$ $I = \frac{V}{R} = \frac{9}{4.33} = 2.08 \text{ A}$
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30.	$P = 2.0 \text{ kW}$ t = 8 jam sehari Bilangan hari dalam bulan Mei = 31 hari bil unit = $2.0 \times 8 \times 31 = 496 \text{ unit}$ 200 unit pertama = RM0.22 / unit Unit seterusnya = RM0.26 / unit kos = $(200 \times \text{RM } 0.22) + (296 \times \text{RM } 0.26) = \text{RM } 120.96$
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36.	$214 = m + 4$ $m = 210$ $n = 82 + 2$ $n = 84$
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36.	$E = K_{\text{maks}} + W$ $E = \frac{hc}{\lambda} = \frac{1.243 \times 10^3}{452} = 275 \text{ eV}$ $W = E - K_{\text{maks}} = 275 - 0.75 = 2.0 \text{ eV}$ $\frac{hc}{\lambda_o} = 2.0$ $\lambda_o = \frac{hc}{2} = \frac{1.243 \times 10^3}{2} = 621.5 \text{ nm}$
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