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Physics

Jawapan
Soalan Ulangkaji

Kertas 1

- | | |
|-------|-------|
| 1. B | 26. C |
| 2. A | 27. B |
| 3. B | 28. A |
| 4. C | 29. B |
| 5. D | 30. A |
| 6. A | 31. C |
| 7. C | 32. C |
| 8. D | 33. A |
| 9. E | 34. B |
| 10. C | 35. B |
| 11. A | 36. D |
| 12. D | 37. C |
| 13. C | 38. A |
| 14. C | 39. D |
| 15. C | 40. D |
| 16. C | 41. B |
| 17. D | 42. D |
| 18. C | 43. C |
| 19. C | 44. A |
| 20. | 45. A |
| 21. C | 46. B |
| 22. C | 47. D |
| 23. D | 48. D |
| 24. B | 49. A |
| 25. A | 50. A |

SPM
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Kertas 2

Soalan	Butiran	Markah
1 (a)	15 m	
(b)	Velocity//Speed	
(c)(i)	Constant // uniform velocity // uniform speed	
(c)(ii)	Stationary / not moving / stops	
2 (a)(i)	Zero error // systematic error	
(a)(ii)	24.0 s	
(b)(i)	T = 1.20s	
(b)(ii)	$\frac{10}{4(3.142)^2} \times (1.2)^2$ = 0.3647 m	
3(a)	Convex mirror	
(b)	Upright/ diminished/ smaller/ virtual	
(c)	<ul style="list-style-type: none"> • Draw parallel ray from the object that incident along a path parallel to the principle axis appears to go through the focal point. • A radial ray that is incident through the centre of curvature, C of the curved mirror is reflected back along the incident path through point C • Determine the correct position of the image 	
(d)	To increase the field of vision.	
4(a)	Transistor NPN	
(b)(i)	$I_B + I_C = I_E$	
(b)(ii)	$V_2 = \frac{R_2}{6 + R_2 + 1500}$ $R_2 = 750 \Omega$	
(c)(i)	The bulb will not light up Resistance R2 is small	
(c)(ii)	Current amplifier	

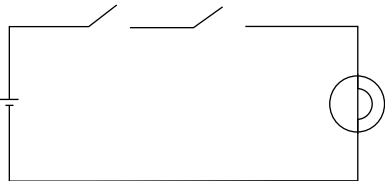
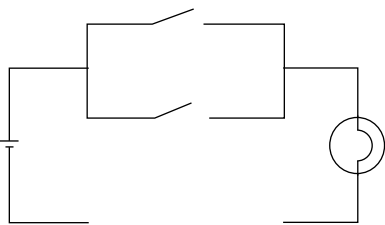
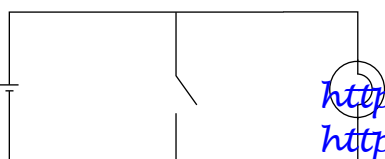


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Kertas 2

Soalan	Butiran	Markah
5 (a)	Change in momentum	
(b)(i)	Force on the egg in diagram 5.2 is larger	
(b)(ii)	Time of impact for surface A is longer/vice versa	
(b)(iii)	The change in momentum is the same	
(b)(iv)	The time of impact is inversely proportional to the force produced in a collision	
(b)(v)	Sponge/ carpet/ towel/cloth/ grass or any other acceptable materials.	
(c)	The time taken during the impact is small The impulsive force produced on the pile during impact is large	
6 (a)	The current that is induced by electromagnetic inductions when the circuit is complete	
(b)(i)	X : North Y : South	
(b)(ii)	Diagram 6.1 bar magnet towards the solenoid Diagram 6.2 bar magnet away from the solenoid	
(c)(i)	Repulsive Attractive	
(d)	Increase the speed of bar magnet/ increase the number of turns of the solenoid/ use a stronger magnet.	
7 (a)	Logic gates are electronic switches with one or more inputs and one output	
(b)(i)		
(b)(ii)		
(b)(iii)		

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Soalan	Butiran		
(c)(i)	K	L	M
	0	0	0
	0	1	0
	1	0	0
	1	1	1
(c)(ii)	AND		
(d)			
(e)			
(8)(a)	Resultant force/net force is zero		
(b)	$W = mg = 60 \times 10$ $= 600 \text{ N}$		
(c)	<p> $T=345 \text{ N}$ $L=3.45 \text{ cm}$ </p> <p> $T=345 \text{ N}$ $L=3.45 \text{ cm}$ </p>		
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