COURSE REVIEW

52	Part One: Unit A – Momentum and Impulse
Marks	Part One of this assignment is worth 18 marks. The value of each question is noted in parentheses in the left margin. Note: The answer areas will expand to fit the length of your
Total	response.
(2) 1. Answer:	•
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(2) 2 .	How are momentum and impulse related?
Answer:	
(4) 3.	
Answer:	collision?
(2) 4.	What is the difference between a scalar and a vector quantity?
Answer:	
(2) 5.	How is momentum related to Newton's laws?
Answer:	
(2) 6.	How is impulse related to Newton's laws?
Answer:	

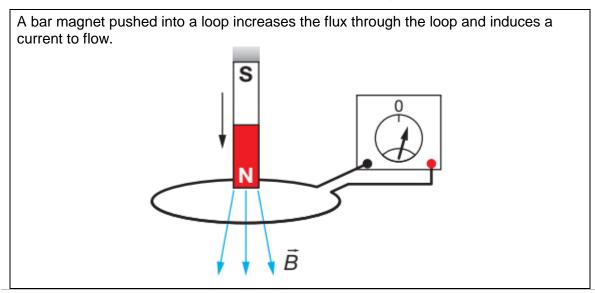
(2) 7.	What is the law of conservation of momentum?
Answer:	
(2) 8.	Describe how crumple zones in vehicles serve to increase the safety of the occupants.
Answer:	

Part Two: Unit B - Forces and Fields

Part Two of this assignment is worth 13 marks. The value of each question is noted in parentheses in the left margin. Note: The answer areas will expand to fit the length of your response.

(3) 1.	What is the difference between an electrical insulator and an electrical conductor? Provide an example of each.
Answer:	

Use the information below to answer question 2.



(3) 2.	Assuming conventional current, explain how you determine the direction (clockwise or counter clockwise) of the induced current. You may use a diagram if you wish.
Answer:	
(2) 3	Describe in detail how a maying charge is be affected by a magnetic field
(3) 3. Answer:	Describe, in detail, how a moving charge is be affected by a magnetic field.
(2) 4.	How are current-carrying conductors affected by magnetic fields? You may use a sketch if you wish.
Answer:	
(2) 5.	How is electric potential energy similar to gravitational potential energy?
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Part Three: Unit C – Electromagnetic Radiation

Part Three of this assignment is worth 10 marks. The value of each question is noted in parentheses in the left margin. Note: The answer areas will expand to fit the length of your response.

(2) 1.	In what circumstances does the photoelectric effect occur?
Answer:	
(2) 2.	What did Maxwell's electromagnetic theory predict?
Answer:	у р. с
(3) 3.	Describe how polarizing filters work and give one example of where they might be used.
Answer:	Describe now polarizing filters work and give one example of where they might be used.
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(3) 4.	How does the photoelectric effect support the notion of wave-particle duality? You may
(0)	use a diagram to support your response.
Answer:	<u> </u>

Part Four: Unit D – Atomic Physics

Part Four of this assignment is worth 11 marks. The value of each question is noted in parentheses in the left margin. Note: The answer areas will expand to fit the length of your response.

(2)	1.	Explain how the discovery of cathode rays contributed to the development of atomic models.
Answ	er:	
(2)	2.	Explain how electron diffraction provides experimental support for the de Broglie hypothesis.
Answ	er:	
(2)	3.	A neutron decays into a proton and an electron. Write the decay reactions of a neutron using both nucleons and quarks. You will need to show two reactions.
Answe		
(3) Answe		Compare and contrast the characteristics of fission and fusion reactions.
Allow	G1.	

(2) 5.	How is the conservation of energy and mass applied to nuclear decay?
Answer:	

When you have completed all of the questions in this assignment, submit your work.