2003 HIGHER SCHOOL CERTIFICATE EXAMINATION Engineering Studies

Section II (continued)

Question 16 — Telecommunication (15 marks)				
(a)	(i)	The telecommunications industry uses copper and fibre optics for transmission of data. State a different application for each of these materials, and explain, in terms of their properties, why they are used for this application.	4	
	(ii)	Cold drawing is used to form copper into electrical wire. Describe TWO problems associated with the use of the process. Describe a subsequent process that will reduce these problems.	3	
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		Question 16 continues on page 26		

(b)		TWO technological changes in the telecommunications industry. the effects that these changes have had on society.	4
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	the	changes to be downwicate with others	
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(c)	n	Describe the transmission of data from a mobile phone to another nobile phone. When you very how a woule phone it creatheses to a central tower nearstell to you and that it ham it is transferred to another mobile plane	2
	e e	explain the effect that mobile phone communications may have on other lectronic systems. State TWO situations where this effect could indanger lives. On a evoplane it cause an es intartuente with the plane and and it to an condanger lives. Condanger lives. Showing and pump - the make phone of an after the pump of the property of the pump.	d d

End of Question 16