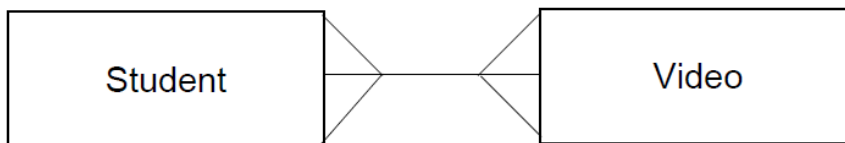


“3-a-day” A-Level Exam Practice (012)

Question 1

(c) The exam board wants to use a database to keep track of which videos each student has viewed. The structure it plans to use is shown below:



(i) Identify **one** reason why this structure would not be suitable.

.....
.....[1]

(ii) Draw a new version of the structure to solve this problem.

[3]

Question 2

(d) The video table consists of the following fields: VideoID, VideoName, Presenter, Topic.

(i) Describe what is meant by the term *primary key*.

.....
.....
.....[2]

Question3

(b) A database contains three tables labelled Customer, Order and Item. Draw an Entity-Relationship Diagram for these where a Customer can have many Orders and an Order can have many Items.

[3]

The questions on this worksheet have been taken from the OCR A-Level Computer Science Sample Paper

Answer 1

	(c)	(i)	<ul style="list-style-type: none"> Many to Many relationships are not allowed/in 3NF (1). 	<p>1</p> <p>AO1.2 (1)</p>	For 1 mark.
		(ii)	<ul style="list-style-type: none"> Table added between student and video (1). Student to middle table 1:M relationship (1). Middle table to video M:1 relationship (1). 	<p>3</p> <p>AO3.1 (3)</p>	For 3 marks.

Answer 2

	(d)	(i)	<ul style="list-style-type: none"> A field that has a unique value/a unique identifier (1) for every record in that table (1) - in this case VideoID (1). 	<p>2</p> <p>AO1.1 (2)</p>	Up to 2 marks for a valid description.
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Answer 3

