SMART EXAM RESOURCES 9702 PHYSICS TOPIC QUESTIONS

TOPIC: PHYSICAL QUANTITIES AND UNITS SUB-TOPIC: ERRORS AND UNCERTAINITIES SUB-SUB-TOPIC: EFFECTS OF ERRORS

1	(a)	Describe the effects, one in each case, of systematic errors and random errors when using a micrometer screw gauge to take readings for the diameter of a wire.
		systematic errors:
		random errors:
		[2]

MARKING SCHEME:

systematic: the reading is larger or smaller than (or varying from) the true reading by a constant amount	B1	
random: scatter in readings about the true reading	В1	[2

2	(a)	Describe the effects, one in each case, of systematic errors and random errors when usin micrometer screw gauge to take readings for the diameter of a wire.	ıg a
		systematic errors:	
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			[2]

Mark Scheme:

(a)	systematic: the reading is larger or smaller than (or varying from) the true reading by a constant amount	B1	
	random: scatter in readings about the true reading	В1	[2]