Automation in Clinical Laboratories + Revision

A Lead-in

- 1 Can you describe the usual day in your laboratory?
- 2 What are the instruments you usually work with? Are they difficult to run?
- 3 What do you think is the most challenging part of a laboratory technician's workday?

B Vocabulary Warm-up. Match the words on the left with those on the right.

1 fully-automated a biohazards 2 state-of-the-art b a test 3 process c the barcode 4 improve d laboratory e a tube system 5 transport via 6 to be exposed to f efficiency 7 to read g control 8 turn-around h instruments 9 quality I samples 10 perform k time

C Listening

I Listen and decide what the following numbers refer	to:
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6 million 3 years 5th 1200 5 million

II Complete the gaps:

1 The journalists report	on the fully-aut	omated laboratory in America.	
	ok place in order to and patient	efficiency, provide test	more quickly and
	samples coming from		
4 There's a lot of	of the specimens	, so that people aren't exposed to bio	hazards
,	so that computers c	an read that and then determine whic time	ch are
6 There's also a	for quality control a	nd maintenance	
7 The results can be obt	ained in a o	f less than hours	
& The rate of	is increased and the	of nationt care is impro	wed

D Use of English

Automated Solution for Pre-analytical Procedures

Workcell is proving _ most labor-intensive a up(4) 65% of the analytical needs of its	(2) be a highly attra espects of clinical laborate average total time sp customers, Tecan offer	active option for its cultury testing and some tent by personnel on costs the Genesis FE500	stomers. Pre-analytic p studies say that specin clinical laboratory proc Workcell, a totally auto	oday that the Genesis FE500 processing is(3) of the men processing accounts for redures. To address the preomated solution to meet the ner clinical laboratories.	
testing and results reproductivity in the laserum volume verification variety of manufacturanalyzers of their	eporting. The Genesis aboratory, including: s ation; aliquoting; barcoc ters. The Genesis FE50	FE500 Workcell ha pecimen sorting; cent de labelling; and placin 00 Workcell brings fl nt to the concept of h	s many functions to trifugation; decapping mg tubes in sampleexibility to customers aving a stepwise mod	must do before analytical (7) efficiencies and ; secondary tube labelling;(8) that come from a wide and allows them to select ular approach to laboratory stic professionals.	
1 A apply	B supply	C multiply	D play		
2 A to	B as	C onto	D into		
3 A the	B some	C one	D many		
4 A on	B to	C over	D more		
5 A labouring	B manufacturing	C proving	D processing		
6 A that	B where	C who	D whose		
7 A invite	B increase	C intake	D input		
8 A stacks	B hacks	C wracks	D racks		
9 A choice	B choose	C willing	D decision		
10 A opposed	B contrary	C adversely	D contrasted		
1 A: How did the accid 2 A: Is that a new micro	- Revision In ideas to complete the dent happen? B: I Toscope? B: No, we Iputer? B: Yes, I	too	it a long time.	in time.	
4 A: This is a nice resta	aurant. Do you come he	ere often? B: No, it's th	ne first time	here.	
5 A: I can't talk to you	right now. You can see	I'm very busy. B: OK. I		_ back in 20 minutes.	
Verb Patterns 1 I can't make a decision. I keep my mind. (change) 2 He had made his decision and refused his mind. (change) 3 Why did you change your decision? What made you your mind? (change) 4 It was really a good experience. I enjoyed the assays. (run)					
2 I (o	ral) the lab, can you do) the Gram stain as so If! If you (f (pass) the written	oon as she follow) the rules, you _	(give) me the	_ (get injured).	
2 There was accide 3 In microbiology, 4 human immune s	ment is high, it's difficul nt in lab yesterday researchers come wi system is very compl nicians is dangerous —	loe tripped over cal th new discoveries icated structure. For e	ble, fell down and brok every week. xample, for B-cells t	e microscope.	