Reported speech, security technology, fingerprint scanners, design	**Test 2 (8)** summer term 2021/2022	**12I1/I2/I3** **12W1** Total: /50

I. Change the direct speech into reported speech. Choose the past simple of 'ask', 'say' or 'tell'. It's the same day, so you don't need to change the time expressions. (10p)

1. "They had never been to Scotland until last year"

She (say)_____

2. "Make sure you arrive early!"

She (tell)_____

3. "I should have studied harder for the exam"

She (say)_____

4. "Remember to study hard!"

She (tell)_____

5. "Where do you want to eat tonight?"

She (ask) _____

6. "I usually drink coffee in the mornings"

She (say)_____

7. "Do you like studying English?"

She (ask)_____

8. "I'll come and help you on Saturday"

She (say)_____

9. "Please buy some bread on your way home"

She (ask) _____

10. "Please give this to John"

She (ask)_____

II. Choose the correct option. (4p)

1 The new _____ fingerprint scanners take a photo of the finger.

a) capacitive b) visible c) optical d) identical

2 Voice _____ software has a lot of applications.

a) recognising b) recognition c) reflecting d) reflection

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3 There was a serious security _____ at the airport last week when a man with a knife in his sock managed to board a plane.

a) detection b) procedure c) incident d) checkpoint

4 The airport security official _____ it wouldn't happen again.

a) told b) promised c) informed d) ordered

III. Complete the paragraph with a word from the box. Write appropriate letters in the blanks. (6p)

A)voltage B)capacitance C)conductor D)battery E)circuit F)sensor

When the switch connects up the charge (1)_____, the (2) _____ charges up the capacitor. The (3) _____ is the amount of charge which can be held by the capacitor. Below each ridge and valley of the fingerprint, there is a single (4)_____ which has a pair of (5) _____ plates. The processor reads the (6)_____ output of all the cells in the scanner and builds up a picture.

IV. Complete each sentence using two different nouns both related to the verb in brackets. (10p)

For example: You should connect an ____*amplifier*_____ to your MP3 player. This will give the music the _____*amplification*___ which you need. **(amplify)**

1. The antenna is a 1)_____, which is used for the 2)_____ of signals to the satellite. **(transmit)**
2. This hand-held metal 3) _____ is used for the 4) _____ of dangerous items such as guns or knives. **(detect)**
3. This country is a major 5)_____ for the world's refineries. Oil 6)_____ makes up about 40% of its industry. **(produce)**
4. If you want us to increase our level of electricity 7)_____ , you'll have to allow us to build a larger 8) _____ . **(generate)**
5. One way to increase crop yields would be to install a huge 9)_____ in space. The 10)_____ of the sun's rays to the dark side of the Earth would almost double the growth of agricultural crops. **(reflect)**

V. Complete the sentence with a word formed from the word in capitals at the end.(6p)

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18 Can you see the _____ building on the plan? CIRCLE

19 The _____ of the bike is a very important feature. STABLE

20 The _____ on this bike is better than on the others. SUSPEND

21 The building has a _____ shape. CONE

22 The _____ design is quite unusual for this product. RECTANGLE

23 You need to look at the _____to see what the outside of the building will look like. ELEVATE

VI. Complete the sentences with a word from the box. (7p)

width/elliptical/angle/perpendicular/inclined/vertical/solid

24 The _____ line represents the floor plan.

25/26 The_____ axis of a graph is _____ to the horizontal axis.

27 The maximum _____ of the building (40m) is at the 16th floor.

28 The Leaning tower of Pisa used to be the most _____ tower in the world.

29 The swimming pool is enclosed in an oval or _____ building.

30 The building stands at a strange_____.

VII. What do the following definitions refer to? Write the words. (7p)

1. To stick out in a rounded shape, especially because something is very full or too tight B_____
2. A machine that passes an electrical beam over something in order to produce a picture of what is inside it S_____
3. a line composed of a series of dashes B_____
4. a large scale drawing that shows the full extent of the site for an existing or proposed development S_____
5. the external form, contours, or outline of someone or something S_____
6. a flat, coloured, ring-shaped membrane behind the cornea of the eye, with an adjustable circular opening (pupil) in the centre I_____
7. a device that passengers pass through and the reflected pulse detects any metal on their person W_____

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