(Technology under skin, Technical drawing, Units of measurement, presentations)

Test 1

13I1/I2/I3 (B2)
czw.7.30
Total: /70

I. Complete the sentences with appropriate words. To help you some letters have been given. (5p)

1. A software that is _ _ _ O _ A _ _ is out of date and no longer in use.
2. Technology that is highly-advanced, innovative and pioneering is C _ _ _ _ _ G _ _ _ E
3. Mobile phones seem to have become _ _ D _ S _ E _ _ _ _ _ E
4. A _ _ _ P _ _ _ R _ _ _ _ is simply interested in and knowledgeable about computers.
5. A building that features ultra-modern solutions is _ _ _ _ _ - _ _ - _ _ _ - _ _ _

II. Match words from A and B into pairs to form collocations. Translate into Polish in C. (20p)

A	B	C
1. fit __	A. device	
2. technological __	B. native	
3. labour-savng __	C. in	
4. computer- __	D. view	
5. digital __	E. code	
6. pass __	F. pen	
7. cross-__	G. breakthrough	
8. metric __	H. section	
9. exploded __	I. literate	
10. technical __	J. system	

III. Decide whether the following sentences are T/true or F/false. (16p)

(technical drawing, measurements)

1. In engineering, most drawings consist of a set of several designs. ___
2. The final drawing is made using a technical pencil, graded according to hardness. ___
3. The visual image of a component should be accurate in terms of dimensions and proportions, and should provide an overall impression of what an object is or does. ___

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4. General arrangement drawing shows one or more smaller components in detail. ___
5. Centuries ago the systems of measurement differed from one city to the next. ___
6. The basic unit multiplied by a thousand is milli, whereas divided by a thousand is kilo. ___
7. The system of measurement used in British industry is the metric system. ___

(presentations)

8. "Intelligence is a skill itself; it's what you can do; and how well and how efficiently you can do things." ___

   Artificial intelligence can be split into two broad types: narrow and general ___
9. Machine learning is when a computer system is being programmed how to perform a task. ___
10. Strong AI exists solely in fiction. ___
11. In inkjet bioprinting, cells and biomaterials are patterned into desired substrates in the form of droplets. ___
12. The extrusion printing produces droplets instead of filaments. ___
13. Collagen as a biocompatible and biodegradable polymer has been widely used to regenerate skin, bone, cartilage, and islets. ___
14. The advances in 3D printing allow for re-creating a 3D microengineered environment that mimics in vitro microenvironments. ___
15. PEG is a biodegradable polymer, which does not limit its possibilities. ___

IV. Translate into Polish or English (15p)

	nie do odróżnienia		róznorodny
ubiquitous		blood vessels	
verisimilitude			włókno
	zmiennoprzecinkowe	nozzle	
binary digits			wklęsły
	nadzór		zesztywnieć
	tusz bilogiczny	printhead	
vascularization			

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V. Complete the extracts with the suggested words or phrases. (14p)

carry out *layers* *attributed to* *networks*

Neural _____ are made up of interconnected_____ of algorithms that feed data into each other. They can be trained to _____ specific tasks by modifying the importance _____ data as it passes between these layers.

data *technique* *machine-learning*

A common _____ for teaching AI systems is by training them using many labelled examples. These _____ systems are fed huge amounts of _____ , which has been annotated to highlight the features of interest.

tissue *blueprint* *diseases* *overcome* *donors* *imaging* *treatments*

Organ transplantation is one of the major_____ for many end-stage organ _____. The supply of _____ is, however, limited. The emerging of _____biofabrication technologies can one day help _____ the tissue or organ shortage.

A _____ of tissues and organs can be generated using medical _____ techniques, such as computer tomography (CT) or magnetic resonance imaging (MRI).

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