## **University Moulay Ismaïl**

## **End of Semester**

#### **ENSAM - Meknes**

# **English Mock Exam**

Dec 2021

Time allotted: 45mn

4th Year

Name:	Section &Group:	

### I. Circle the right answer

- 1. Protective layer to prevent or reduce the conduction of heat or electricity
  - a. Protection
  - b. Insulation
  - c. Isolation
  - d. Barrier
- 2. Which one is non-metal
  - a. Copper
  - b. Brass
  - c. Zinc
  - d. Rubber
- 3. What is the non-verbal feature concerning what we wear and how we stand on stage?
  - a. Smart clothes
  - b. Posture
  - c. Formal clothes
  - d. Position
- 4. Choose among the following statements those concerning the post-use phase
  - a. Wood is a better insulator than brick.
  - b. Bricks logically last longer than timber.
  - c. Bricks are heavy to transport.
  - d. It is possible to recover both bricks and softwood
- 5. Which one contains iron?
  - a. Copper
  - b. Aluminum
  - c. Steel
  - d. Brass
- 6. "Allow", "prevent", and "ensure" are specific vocabulary used for describing technical applications
  - a. True
  - b. False
- 7. How do you call the GPS feature that ensures the crew of a ship to find the position of any falling body in the water?
  - a. Man in the water
  - b. Geographical position
  - c. Man overboard
  - d. Falling man

- 8. How do you call the process of using again materials that have already reached their lifespan's end?

  a. Reusing
  b. Reutilizing
  c. Recycling
  d. Recircling

  9. Choose among the following features the verbal one
  - a. Pace
  - b. Movement
  - c. Gestures
  - d. Facial expressions
  - 10. Choose among the following features the non-verbal one
    - a. Voice projection
    - b. Rate of speech
    - c. Eye contact
    - d. Stress
  - 11. The GPS was originally developed for military use in the United States.
    - a. True
    - b. False
  - 12. Abrasive cutting and removing a kerf of material is:
    - a. Milling
    - b. Drilling
    - c. Waterjet cutting
    - d. Sawing
  - 13. Cutting away the material in a rotary motion
    - a. Shearing
    - b. Flame-cutting
    - c. Grinding
    - d. Milling
  - 14. What is the disadvantage of bolts?
    - a. Work loose overtime
    - b. Permanent
    - c. Are weakened by heat
    - d. Are weakened by water
  - 15. What is the disadvantage of welding?
    - a. Work loose overtime
    - b. Generate flawed welds
    - c. Are weakened by paint
    - d. Are weakened by water
  - 16. What does virtual model mean?
    - a. Reduced scale model
    - b. Mock-up model
    - c. Prototype
    - d. Computer model

# II. Answer the following questions

_	anize the following statements, respecting the lifespan's chronology.
a.	
	Neither wood nor bricks are very easy to recycle.
c.	During construction, building with bricks uses more energy, as sand and cement must be transported and mixed to make mortar.
d.	It takes a lot of energy to produce bricks because they must be fired in a kiln.
1)	
2)	
3)	
4)	
18 Reorg	anize the following statements, respecting the lifespan's chronology.
_	However, it takes less energy to transport aluminium because it's lighter.
	For in-use, aluminium is better than copper for the bodywork.
c.	As a matter of fact, the vehicle would consume less fuel.
d.	For post-use, both aluminium and copper can be recycled.
e.	For pre-use, it takes more energy to produce aluminium than to produce copper, if it's
	derived from ore.
1)	
2)	
3)	
4)	
5)	
19 Reorde	er the following statements to make a coherent paragraph.
a.	Scrapping cars presents both benefits and problems of recycling.
b.	A lot of metal, notably steel, can be recycled.
c.	On the other hand, tyres are more difficult to recycle.
d.	What is more, oil, brake fluid and battery acid are potential pollutants which need to be
u.	disposed of carefully.
0	Intact parts can be recovered and resold
e.	intact parts can be recovered and resold
1)	
2)	
3)	
4)	
5)	

# Task 1

>	Match t	the following words v	with their d	efinitions:
	1.	Magnetism	a.	passing an electrical current through a liquid or solid in order to separate chemical compounds
	2.	Galvanization	b.	Isolation
	3.	Electrolysis	c.	force of attraction
	4.	Insulation	d.	coated with zinc (Zn) to prevent rusting
>	Give an	n example of <b>magnet</b>	<b>ism</b> in a me	eaningful sentence
Task	2			
	Look a	t the example for ins	spiration:	Waterjet-cutting (curved edges, thick materials)
		Waterjet-cutting is t materials.	he ideal so	plution for <u>curved edges</u> , but it's not so good if you need to cut <u>thick</u>
	1. Sav	wing ( straight edges,	curved edg	ges)
	2. Fla	me-cutting (metals,	•	
	••••			
Task	3			
		<b>two</b> meaningful sente		ne following <b>prompt</b> , using the cause and effect expressions ( <b>result in</b> , <b>ey words</b> :
Promp	ot: <u>A veh</u>	icle tire is overheatin	<u>g</u> : ( <b>Key w</b> o	ords: puncture, explosion, inflation, wearing)
	a	. Possible cause:		

	b. F	Possible effect:
Task (	4	
>		the statements below about aluminum and steel as used in cars bodywork, <b>compare</b> between d steel in <b>pre-use</b> , <b>in-use</b> , and <b>post-use</b> phases.
	✓	It takes a lot of energy to produce aluminum.
	✓	Aluminum is made by electrolysis.
	✓	Steel takes less energy to weld.
	✓	Aluminum is lighter, so the vehicle would consume less fuel
	✓	It takes less energy to handle and transport aluminum.
	✓	It takes less energy to produce steel.
	✓	Aluminum lasts longer.
	✓	Old steel cans are recycled easily to make car parts.
Task	5	
		elop a car's aerodynamic design using <u>all of</u> the following tools (CFD, acid test, mock-up, educed scale, wind tunnel.)
	• • • • • • • • • • • • • • • • • • • •	
	•••••	
	•••••	
	•••••	