20/05/2024

1h 30

Exam_correction

I: About Engineering			
1. Define briefly the words "Technique" and "I	Profession "?	(2)	
• (1) Technique: refers to a method of	or a systematic way of performing	a particular task, often	
involving specialized skills, procedures, or t	ools to achieve a desired outcome.		
• (1) <i>Profession</i> : is a type of occupation expertise in a specific field.	n that typically involves specialized t	training, education, and	
2. Name five (05) Branches of engineering, then	Give a short description of one bra	nch of your choice?	
		(5)	
• (2.5) Branches: * Process Engineering	* Hydrocarbons	* Public Works	
*Civil Engineering	* Hydraulics	* Aeronautics	
*Mechanical Engineer	ring * Maritime Engineering	* Metallurgy	
• (2.5) A short description of one branch	ı: for example : Hydrocarbons engi	ineering	
Hydrocarbons engineering: deals with the	exploration, extraction, processing, a	and utilization of	
hydrocarbons (compounds consisting of hyd	lrogen and carbon) such as crude oil a	and natural gas.	
3. Give three (03) Tasks of an engineer?		(3)	
Tasks: * Problem Solving * Desi	gn and Innovation * Analysi	s	
* Project Management * Colla <u>II: About your Major</u>	aboration * Commi	unication	
A / Civil Engineering 1. Name you Major (Specialty) ?		(2)	
Civil engineering			
2. Name four (04) Application areas or Sub-desc	iplines of your specialty?	(4)	
Structural engineering	Geotechnical engineer	ring	
Transportation engineering	Transportation engineering Construction engineering		
Urban planning and development	Urban planning and development Environmental engineering		
Water resources management	Coastal and Marine en	Coastal and Marine engineering	

3. Explain the Main mission of an engin	neer in your field? (4)
maintain buildings, bridges, highwater supply and wastewater trea	eivil engineer is to conceive, plan, design, construct, operate, and ways, airports, railways, tunnels, waterways ports and harbors, dams atment systems. They aim to improve health and safety for people ent, consider costs and resources, and promote overall sustainability.
B / Mechanical Engineering	nt, consider costs and resources, and promote overall sustainability.
	(2)
Mechanical engineering	
2. Name four (04) Application areas or	Sub-desciplines of your specialty? (4)
Manufacturing and production	Automotive engineering
Aerospace engineering	Materials engineering
Energy systems and renewable en	ergy Robotics and automation
Biomedical engineering	Environmental engineering
The main mission of a measystems using engineering, physical problems and designing solution prototypes, overseeing the manufacture evaluating and improving their effective of the process of the process of the manufacture of the process of the pr	chanical Engineer is to design, build, and test mechanical devices and ics, and mathematics principles. They are responsible for analyzing ons for mechanical and thermal devices, developing and testing acturing process for mechanical components, equipment, and systems ficiency.
	Sub-desciplines of your specialty? (4)
Chemical Industry	Oil and Gas Industry
Food and Beverage Industry	Pharmaceutical Industry
Biotechnology	Energy Industry
Materials Processing	Water Treatment
Semiconductor Industry	Environmental Engineering
3. Explain the Main mission of an engin	neer in your field? (4)
various sectors, including the pharmacy, It is also optimizing	cess engineer is studying, sizing, and implementing production units in oil and gas industry, environment, chemical industry, agri-food ng production processes, managing resources, designing safe and ng challenges related to transforming raw materials into finished

S.Aourar

Good Luck