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/test-hankankgineering-fundagnantals-familiatnodukti@n-fbedngineering-si-@ditjon-5e-moaveni

	loes NSPE s	
		ociety of Pipeline Engineers
		ociety of Petroleum Engineers
		ociety of Professional Engineers
		tates Power Enterprise
A	nswer:	С
2. For wh	ich of the fo	ollowing products are engineers directly involved in the production?
a.	Automobil	es
b.	Notebook 1	paper
c.	Bottled was	ter
d.	Smart phor	ies
e.	Laptop con	nputers
f.	Notebook p	paper
g.	All of the a	above
A	nswer:	g
3. Accord	ling to the la	atest estimates and projection of the U.S. Census Bureau, the world
populatio	n will reach	9.3 billion people by the year 2050.
a.	True	
b.	False	
A	nswer:	a
4. The wo	orld-wide po	opulation of people 65 years of age and older will more than double in the
next 25 ye	ears.	
a.	True	
b.	False	
	nswer:	

a. Environmental Engineers

b. Mechanical Engineers

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	c. Electrical	and Computer Engineers
	d. All of the	above
	Answer:	d
6. Lis	st at least five p	products in your home, apartment or dorm room that engineers are directly
nvol	ved in the prod	uction of.
i.		
ii.		
iii.		
iv.		
v.		
7. WI	hat does NASA	stand for?
	a. North Am	erican Space Agency
	b. North Am	erican Space Administration
	c. National A	Aeronautics and Space Administration
	d. National A	Aero-Space Administration
	Answer:	c
3. In	which of the fo	ollowing fields do engineers work?
	a. Design	
	b. Sales	
	c. Technical	support
	d. Maintenar	nce
	e. Customer	service
	f. All of the	above
	Answer:	f
9 Lie	st at least five t	raits of good engineers.
). L I	st at loast live t	tatis of good engineers.
i.		
ii.		

iii.					
iv.					
v.					
10. G	ood engineer	s have good	grasp of fundamentals	s and are analytical, de	tail oriented, and
creativ	ve.				
	a. True				
	b. False				
	Answer:	a			
11. G	ood engineer	s don't need	strong time-managem	ent skills because other	ers usually take care
of sch	eduling.				
	a. True				
	b. False				
	Answer:	b			
12. G	ood engineer	s have good	written and oral comm	nunication skills.	
	a. True				
	b. False				
	Answer:	a			
13. Go	ood engineer	s don't need	good "people and tea	m-work skills" since n	nost of their work is
done i	independently	y in their off	ces or labs.		
	a. True				
	b. False				
	Answer:	b			
14. Li	st at least fiv	e engineerin	g disciplines.		
i.					
ii.					
iii.					
iv.					

v.	
1.5 XVII	4.1 ADET 4.16.0
15. WI	nat does ABET stand for?
	a. Accreditation Bureau for Engineering and Technology
	b. American Board of Engineers and Technicians
	c. Association for Better Engineers and Technicians
	d. Accreditation Board for Engineering and Technology
	Answer: d
16. Mc	ost graduating engineering students take a six-hour computer based exam called the FE
exam,	which stands for
	a. Formal Exercises
	b. Fundamental Exercises
	c. Fundamentals of Engineering
	d. Formal Engineering
	Answer: c
17. Ac	cording to ABET, engineering graduates should be able to
	a. analyze and interpret data
	b. apply knowledge of mathematics
	c. communicate effectively
	d. use the techniques, skills, and modern engineering tools necessary for engineering practice
	f. All of the above
	Answer: f

18. Engineers often	use computers to model and analyze problems.
a. True	
b. False	
Answer:	a
19. Mechanical eng	ineers are involved in the design, development, testing, and manufacturing
machines, robots, to	ools, gas turbines, internal combustion engines.
a. True	
b. False	
Answer:	a
20. Manufacturing e	engineers develop, coordinate, and supervise the process of manufacturing all
types of products.	
a. True	
b. False	
Answer:	a
21. Biomedical engi	ineering combines biology, chemistry, medicine, and engineering to solve a
wide range of medic	cal and health-related problems.
a. True	
b. False	
Answer:	a
22. Petroleum engin	neers apply the laws and principles of chemistry, biology, and engineering to
address issues relate	ed to water and air pollution control, hazardous waste, waste disposal, and
recycling.	
a. True	
b. False	
Answer:	Ь

23. Materials engineers research, develop, and test new materials for various products and engineering applications.

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•	П	[wild	`
a .		uu	

b. False

Answer: a

- 24. Which one of the following engineering disciplines is most likely to be involved with providing public infrastructure and services?
 - a. Mechanical Engineering
 - b. Civil Engineering
 - c. Electrical Engineering
 - d. Chemical Engineering
 - e. Aerospace Engineering

Answer: b

- 25. Which one of the following engineering disciplines is most likely to be involved with providing lighting and wiring for buildings?
 - a. Mechanical Engineering
 - b. Civil Engineering
 - c. Electrical Engineering
 - d. Chemical Engineering
 - e. Aerospace Engineering

Answer: c

- 26. Which one of the following engineering disciplines is most likely to be involved with designing a heating, cooling, and ventilation for a building?
 - a. Mechanical Engineering
 - b. Civil Engineering
 - c. Electrical Engineering
 - d. Chemical Engineering
 - e. Aerospace Engineering

Answer: a

Test Bank	Engineering Fundamentals, SI, 5 th ed.	Chapter 1		
27. Which one of the following engineering disciplines is most likely to be involved with the				
design of military aircra	it and missiles?			
a. Mechanical Er	ngineering			
b. Civil Engineer	ring			
c. Electrical Eng	c. Electrical Engineering			
d. Chemical Eng	d. Chemical Engineering			
e. Aerospace Eng	gineering			
Answer: e				
28. Which one of the fol	lowing engineering disciplines is most likely to	be involved in the		
pharmaceutical industry	?			
a. Mechanical Er	ngineering			
b. Civil Engineer	ring			
c. Electrical Eng	ineering			
d. Chemical Eng	ineering			
e. Aerospace Eng	gineering			
Answer: d				
29. Good engineers are	ledicated to lifelong learning.			
z,. sood engineers are	realization to informing fourning.			

- a. True
- b. False

Answer: a

- 30. In general, the scope of an engineering technologist's work is more application oriented and requires less understanding of mathematics, engineering theories, and scientific concepts that are used in complex designs.
 - a. True
 - b. False

Answer: a