https://selldocx.com/products/test-bank-engineering-your-future-a-comprehensive-introduction-to-engineering-9e-oakes

CHAPTER TWO: ENGINEERING MAJORS

MULTIPLE CHOICE

- 1. Which of the following is *not* an engineering function?
 - a. Consulting
 - b. Teaching
 - c. Development
 - d. Electronic
 - e. None of the above

ANSWER: D

- 2. Which of the following is *not* an engineering branch?
 - a. Electrical
 - b. Mining
 - c. Operations
 - d. Chemical
 - e. None of the above

ANSWER: C

- 3. Which of the following is *not* an engineering function?
 - a. Sales
 - b. Customer Support
 - c. Management
 - d. Systems
 - e. None of the above

ANSWER: C

- 4. Which of the following is *not* an engineering branch?
 - a. Electrical
 - b. Mining
 - c. Operations
 - d. Chemical
 - e. None of the above

ANSWER: C

- 5. The "R" in "R and D" stands for:
 - a. Research
 - b. Robotics
 - c. Resistance
 - d. Relativity

ANSWER: A

TRUE/FALSE

6. The engineering branch most closely affiliated with business principles is industrial engineering.

ANSWER: True

7. Your Introduction to Engineering instructor's function within engineering is in *consulting*.

ANSWER: False

8. Most engineering branches have some aspects which overlap into other engineering branches.

ANSWER: True

9. An engineer involved in refrigeration, heating and air conditioning would most likely be a mechanical engineer.

ANSWER: True

10. At most 4-year universities, the computer science department is located within the college of engineering.

ANSWER: True

11. A marine engineer is focused mainly on boat and ship design.

ANSWER: True

12. Operations research is a subset of nuclear engineering.

ANSWER: False

13. Highway design is a subset of civil engineering.

ANSWER: True

14. Signal processing is a subset of electrical engineering

ANSWER: True

Reference: List 2:

Write the number from the list of engineering branches or sub-branches for the most appropriate description. Note that all of the choices will **not** be used.

- a. Aerospace engineering
- b. Agricultural engineering
- c. Architect
- d. Biomedical engineering
- e. Ceramic engineering
- f. Chemical engineering
- g. Civil engineering

- h. Computer engineering
- i. Computer science
- j. Construction engineering
- k. Electrical engineering
- 1. Environmental engineering
- m. Geotechnical engineering
- n. Industrial engineering
- o. Manufacturing engineering
- p. Materials engineering
- q. Mechanical engineering
- r. Mining engineering
- s. Nuclear engineering
- t. Petroleum engineering
- u. Structural engineering
- 15. Deals with design of hardware, as opposed to software

ANSWER: H
Refer to: List 2

16. Develops Kevlar, Mylar, Nylon, Rayon, Fibreglas, other plastics, and high-strength steel

ANSWER: P Refer to: List 2

17. Involved in the process of finding new sites from which coal and nickel can be extracted

ANSWER: R Refer to: List 2

18. Involved in cleaning up toxic wastes, and rehabilitating abandoned gas-station tanks.

ANSWER: L Refer to: List 2 19. Exploration, production and transportation of natural gas

ANSWER: T Refer to: List 2

20. Common employers might include Boeing, Airbus, Rockwell, Lockheed-Martin, and

NASA

ANSWER: A Refer to: List 2

21. Designs process to determine radiation levels from spent fuel core rods

ANSWER: S Refer to: List 2

22. Designs a process which accelerates the ripening of grapes used in the wine industry

ANSWER: B Refer to: List 2

23. Involved in the design of artificial human joints, such as knees, elbows, and shoulders

ANSWER: D Refer to: List 2

24. Involved in designing housing foundations, and retaining walls used on hillside homes.

ANSWER: M Refer to: List 2

25. Develops a process whereby ethanol (ethyl alcohol) is added to gasoline

ANSWER: F Refer to: List 2 26. Involved in writing code in languages including Pascal, C++, FORTRAN, Basic and Java

ANSWER: I Refer to: List 2

27. Designed the central heating/cooling system used in the classroom where you are now sitting

ANSWER: Q Refer to: List 2

28. Sub-disciplines include communications, power, and computers

ANSWER: K Refer to: List 2

29. In most construction projects of buildings, the profession normally hired as project leader and/or coordinator.

ANSWER: C Refer to: List 2

30. Creates new methods and tools for computer microchip assembly lines to perform their job easier, faster, and more efficiently.

ANSWER: O or N Refer to: List 2

31. Designs a storm drain which will never get clogged with trees and leaves.

ANSWER: G Refer to: List 2

Reference: List 3

Write the number from the list of engineering branches or other engineering related groups below before the **abbreviation for that branch's professional society.** Note that all of the choices on the left will **not** be used.

- 1. Aerospace engineering
- 2. Agricultural engineering
- 3. Architecture
- 4. Automotive engineering
- 5. Biomedical engineering
- 6. Blacks in engineering
- 7. Chemical engineering
- 8. Civil engineering
- 9. Computer engineering
- 10. Computer science
- 11. Construction engineering
- 12. Electrical engineering
- 13. Engineering education
- 14. Environmental engineering
- 15. Geotechnical engineering
- 16. Heating, Refrigeration, Air Conditioning engineering
- 17. Hispanics in engineering
- 18. Industrial engineering
- 19. Manufacturing engineering
- 20. Materials engineering
- 21. Mathematics
- 22. Minorities in engineering
- 23. Mechanical engineering
- 24. National Science Foundation
- 25. Nuclear engineering
- 26. Petroleum engineering
- 27. Standards and Technology
- 28. Women in engineering

32. ASCE ANSWER: 8 Refer to: List 3

33. IIE

ANSWER: 18 Refer to: List 3

34. ASME ANSWER: 23 Refer to: List 3

35. ACS
ANSWER: 7
Refer to: List 3

36. IEEE
ANSWER: 12
Refer to: List 3

37. ASHRAE ANSWER: 16 Refer to: List 3

38. AIA
ANSWER: 3
Refer to: List 3

39. NACME ANSWER: 22 Refer to: List 3

40. MAA

ANSWER: 21 Refer to: List 3

41. SWE

ANSWER: 28 Refer to: List 3

42. NSF

ANSWER: 24 Refer to: List 3

43. NIST

ANSWER: 27 Refer to: List 3

44. SAE

ANSWER: 4 Refer to: List 3

45. AIAA

ANSWER: 1 Refer to: List 3

46. ANS

ANSWER: 25 Refer to: List 3

47. ASEE

ANSWER: 13 Refer to: List 3 48. CSI (not the TV show)

ANSWER: 11 Refer to: List 3

49. NSBE
ANSWER: 6
Refer to: List 3

50. SME

ANSWER: 19 Refer to: List 3

51. SHP

ANSWER: 17 Refer to: List 3