

***Engineering Your Future - A Brief Introduction to
Engineering 6th edition Oakes Test Bank***

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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. The “R” in “R and D” stands for:

- a. Research
- b. Robotics
- c. Resistance
- d. Relativity

ANSWER: A

TRUE/FALSE

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

ANSWER: True

5. Your Introduction to Engineering instructor’s function within engineering is in *consulting*.

ANSWER: False

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

ANSWER: True

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

ANSWER: True

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

ANSWER: True

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

ANSWER: True

10. Operations research is a subset of nuclear engineering.

ANSWER: False

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
- l. 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

11. Deals with design of hardware, as opposed to software

ANSWER: H

Refer to: List 2

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

ANSWER: P

Refer to: List 2

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

ANSWER: R

Refer to: List 2

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

ANSWER: L

Refer to: List 2

15. Exploration, production and transportation of natural gas

ANSWER: T

Refer to: List 2

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

ANSWER: A

Refer to: List 2

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

ANSWER: S

Refer to: List 2

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

ANSWER: B

Refer to: List 2

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

ANSWER: D

Refer to: List 2

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

ANSWER: M

Refer to: List 2

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

ANSWER: F

Refer to: List 2

22. Involved in writing code in languages including Pascal, C++, FORTRAN, Basic and Java

ANSWER: I

Refer to: List 2

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

ANSWER: Q

Refer to: List 2

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

ANSWER: K
Refer to: List 2

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

ANSWER: C
Refer to: List 2

26. 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

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

ANSWER: G
Refer to: List 2