



**KEMENTERIAN RISET, TEKNOLOGI, DAN PENDIDIKAN TINGGI**  
**UNIVERSITAS TIDAR**  
**FAKULTAS TEKNIK**

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**MID-TERM TEST OF ODD SEMESTER**  
**ACADEMIC YEAR 2019/2010**

COURSE : English Language  
LECTURER : Boris Ramadhika, S.Pd., M.Pd.  
CREDITS/SEMESTER : 2 SKS / 1  
CLASS : 01, 02, 04  
DAY/DATE :  
TIME : 90 Minutes  
STUDY PROGRAM : S1 Civil Engineering

**Instructions:**

1. Students who do cheating will get a zero score.
2. Students are prohibited to access the mobile phone.
3. Students are allowed to use a printed dictionary only.

**I. Answer the following questions by crossing the correct answers. (10)**

1. During the U.S. Civil War, an engineer organize a bridge to pass the river.  
Which word is incorrect in the sentence?
  - a. During
  - b. American
  - c. Organize
  - d. Pass
2. Supplying energy and clean water, recycling our waste, and building bridges are what we expects from civil engineers.  
Which word is incorrect in the sentence?
  - a. Supplying
  - b. Clean
  - c. Are
  - d. Expects
3. Mathematics and physics is important to learn for an engineer.  
Which word is incorrect in the sentence?
  - a. Mathematics
  - b. Physics
  - c. Is
  - d. Learn



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4. The first self-proclaimed civil engineer was John Smeaton who constructs the Eddystone Lighthouse in 1771.  
Which word is incorrect in the sentence?
  - a. Self-proclaimed
  - b. Was
  - c. Who
  - d. Constructs
5. A bachelor's degree are needed if you want to work in this company.  
Which word is incorrect in the sentence?
  - a. Needed
  - b. Are
  - c. Want
  - d. To work
6. Do he like to do the design all the time?  
Which word is incorrect in the sentence?
  - a. Do
  - b. Like
  - c. To do
  - d. Time?
7. What does he wanted to do after digging the surface with this machine?  
Which word is incorrect in the sentence?
  - a. Does
  - b. Wanted
  - c. To do
  - d. Digging
8. Do you make the design yesterday as I told you before?  
Which word is incorrect in the sentence?
  - a. Make
  - b. Design
  - c. Told
  - d. Do
9. What is the materials for creating strong cement?  
Which word is incorrect in the sentence?
  - a. Materials
  - b. What
  - c. Is
  - d. Creating



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10. The Golden Snail theatre, located in the TMII area in Jakarta, was initiated by Tien Soeharto and start to operate since April 20<sup>th</sup> 1984.

Which word is incorrect in the sentence?

- a. Located
- b. Initiated
- c. Start
- d. Operate

**II. Answer all questions based on the following passage. (10)**

Civil engineers plan and design bridges and tunnels, as well as highways, airfields, harbors, water and sewage systems, and buildings. They also supervise the construction of such projects to ensure that they are built according to carefully drafted plans. Civil engineers are employed by all levels of government, by construction companies, and by engineering and architectural firms. Some civil engineers do independent consulting work. Others work for public utility companies or in the iron and steel industry. Still other civil engineers teach at colleges and universities.

Civil engineering is such a broad and varied field that most engineers specialize in one area. Some of the main specializations include structural, construction, hydraulics, sanitary, environmental, transportation, and soil mechanics engineering. Structural engineers are experts in building structures safely and efficiently. They work with architects to design large buildings, bridges, and tunnels. Construction engineers supervise the actual construction of projects once they are designed. **They** decide on the best materials and methods to use in building such structures as skyscrapers. Civil engineers who work in hydraulics design canals, flood-control systems, and irrigation systems. They study water sources and try to develop ways of using water that will benefit the community. For example, a hydraulic engineer might design a dam in a river to create a reservoir to safeguard the water supply of an area. Sanitary engineers design systems to purify water and treat wastes to provide a safe and economical supply of water. They work with environmental engineers to control water and air pollution. Transportation engineers plan highways, subways, airports, and railroads. Those who specialize in soil mechanics develop ways to use soil so that building foundations can be improved.

Civil engineers work with architects, other engineers, and construction personnel. These professionals often bring their specialized talents together to work on urban planning projects. Civil engineers must be accurate and consider the safety of the thousands of people who will use the structures they design and build. They also work in an intellectually demanding field that requires a strong aptitude for mathematics and the physical sciences. They need the ability to think logically and creatively to be successful. They must be able to communicate well, both verbally and in writing.



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A bachelor's degree in civil engineering from an accredited school is essential to enter the field. Many colleges offer four- or five-year engineering programs that include courses in thermodynamics, fluid mechanics, circuitry, stress analysis, and structural design. Social sciences and humanities classes are usually required as well. Some colleges offer cooperative programs in which students divide their time between classes and work experience. Those who want careers in research, development, or teaching will need a graduate degree. Some companies help pay students' tuition. After getting a degree, graduates must get field training. A state license is also needed before they can be professional engineers in private practice. Most states require about four years of work experience before engineers can take the licensing examination. After licensing, civil engineers must continue their educations to keep up with advances in the field.

There are many opportunities for advancement. Civil engineers who work in civil service can advance from junior engineer to assistant engineer to associate engineer, and then become the head of a department. Promotion of this type also occurs in large firms. Engineers can advance from project management to an administrative position as a consulting engineer, department head, or chief engineer of a large construction firm. In a smaller company's advancement takes the form of specialization. Self-employment or partnership in a company is possible for those with exceptional ability and capital.

Civil engineers work in many different places, depending on their specialization and their employers. They can work in offices as well as at construction sites. Civil engineers doing research may work in laboratories. Most engineers are steadily employed, but engineers working in construction may experience periodic layoffs. Those who work for government agencies enjoy job security not found in other types of engineering. Regardless of where they work, civil engineers must face the strain of deadlines and tight schedules. Their work is exacting. They must be very accurate because their work involves costly projects. They must be able to work as part of a team and communicate their ideas to the other specialists on the project. Problem solving requires innovation and the ability to make decisions. Civil engineers report that the personal satisfaction of this work usually outweighs the pressures.

1. What do civil engineers do before constructing the building?

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2. How many specializations mentioned in the passage? Write them all.

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3. What does the word 'they' refer to in line 12?

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4. What professionals are needed to work on urban planning projects?

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5. Why is a bachelor's degree essential for entering the field of civil engineering?

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6. What is needed to be a professional engineer in private practice?

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7. What is the benefit when you have exceptional ability and capital?

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8. Why must civil engineers be able to work as a team?

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9. If you can choose, what civil engineer specialization that you want? Why?

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10. Based on the passage, why civil engineers are essential for building a civilization?

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**III. Write your arguments by using the expression of agreeing and disagreeing based on the following statements. (5)**

1. Jogjakarta should be built highways to accommodate four-wheel or more vehicles like in Jakarta.

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2. Steel structures are better to be built in a small city than concrete structures.

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3. Civil engineers should master more than one specialization.

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4. Eco-friendly construction should be the main matter in constructing buildings.

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5. Civil engineers in construction sites should be paid more than those who are in the office.

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