

Spring 2015-2016

College of Engineering-Misurata University

Final Exam: English (2)

Department : General

Date 24 /5/2016

Time: 2hrs

Student's name Student's number:.....

Read the passage carefully then answer the questions below.

The function of civil engineers fall into three categories: before construction (feasibility studies, site investigations, and design), during construction (dealing with clients, consulting engineers, and constructors) and finally after construction (maintenance).

Any major civil engineering project starts with a feasibility study to assess both financial and engineering aspects. During the feasibility study a preliminary site investigation is carried out. Once a scheme has been approved, a more extensive investigation is usually necessary to evaluate the load-bearing qualities and stability of the ground. This field is called soil mechanics. The design of engineering works may require the application of principles of hydraulics, thermodynamics and nuclear physics. During the construction phase. A consulting engineer is often employed to responsible for design of the works, supplying specifications, drawings, and legal documents to get competitive tender prices. In a turnkey or package contract the building contractor undertakes to finance, design, specify, and commission the whole project. Maintenance is normally carried out by the contractor as part of the agreement: if there are maintenance problems, it is the responsibility of the contractor to pay for any necessary work. Preliminary feasibility study is a study in which a series of steps by which all the attributes of each proposal are marked, resulting in two or three being selected. Secondary feasibility study which determines the best of two or three remaining schemes. Rough dimensions are put onto the structure at this stage, in order that a more accurate costing system can be implemented. Feasibility study factors: cost, aesthetic, appeal, maintenance, ecology, and disruption. In the preliminary design dimensions and quantities of materials are roughly analyzed and calculations are performed to estimate prices and construction needs. In detailed design, the exact geology of the area is considered. This is determined by pits and boreholes

Q1- Put the following tasks into the appropriate phase of construction.

Consulting engineer communication with client * extensive site investigation * consulting engineer contact with contractors * feasibility study * detailed design * maintenance * employment of consulting engineer * preliminary site investigation

Phase	Tasks
Before construction	
During construction	
After construction	

(5 points)

Q2 Answer the following questions

1- What are the five steps in pre-construction phase?

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.....
.....

2- What are the essential duties and responsibility of a civil engineer?

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3- What is feasibility study?

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4- What is civil engineering?

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.....

5- What is soil mechanics?

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.....(10 points)

Q3- Give short, but brief definition for each of the following terms.

1- Applied research.

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2- Carry out.

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3- Analyse

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4- Evaluate

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.....

5- Explore

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.....(10 points)

Q4- Match each of the following compounds with its suitable idea.

*explosion proof *dust proof *switch board *water tight *panel board

1- Material that does not allow water to get into it.

2- A board consisting of a number of electrical switches.

3- A board consisting of a number of panels.

4- Material that will not be damaged in an explosion.

5- Material that does not allow dust to get into it.

(5 points)

Q5- The works manager is showing a group around the factory. The letters of the words are mixed up. Complete the dialogue.

We're not particularly busy at the moment. Believe it or not, the (a)_____ (manedd) for furniture is seasonal.

So, do you (b)_____ (kaem-ot-osckt)?

Well, all our units are made- (c) to order. However, we make components-to-stock.

When are your busy times?

Normally from September to May but there is always a great deal of (d)_____ (cerunintyta) and it's difficult to (e)_____ (recatfos) sales trends.

So does the (f) _____ (adel mite) vary?

No, not really. Our (g) lead time is usually 8 to 10 weeks. When we are

very busy, the workforce usually do (h) _____ (mitevero) to try to avoid a

(i) _____ (lockbag) of orders. If necessary we introduce a (j) _____ (tisht) system when we're working at full capacity to avoid (k) bottleneck at key machines.

During a busy period do you have (l) _____ (toskc-tous)?

Seldom. We use the time when work is (m) _____ (lacks) to build up stock of components.

(10 points)

Q6- Match the following petroleum engineering terms and phrases with their definitions.

*Derrick *drill *flammable *offshore *upstream

- places in oceans, seas or large lakes
- exploration and production activities for oil and natural gas
- a pyramid of steel over a bore hole to drill for oil
- to cut through rocks
- burns easily

(5 points)

Q7- Change the following nouns into adjectives.

- Activation
- Generation
- Recovery
- Reliability
- Integration

(5 points)

GOOD LUCK