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RETEST EXAMINATION-2019

Semester : 6th

Subject Code : CT-611

CONSTRUCTION METHODS AND MACHINERY

Full Marks – 70

Time – Three hours

The figures in the margin indicate full marks for the questions.

Instructions :

1. All the questions of PART-A are compulsory.
2. Answer all the questions from PART-B.

PART – A

Marks – 25

1. Choose the correct answer from the options given below the statement : 1×10=10
 - (i) To achieve construction economy latest information of new construction technology should be acquired by _____.
 - (a) Engineers
 - (b) Contractors
 - (c) Both (a) and (b)
 - (d) Client

[Turn over

(ii) Which of the following is a hauling equipment _____.

- (a) Tractor
- (b) Bull dozer
- (c) Scraper
- (d) Cranes

(iii) The compaction process can be accomplished by _____ process.

- (a) Rolling
- (b) Tampering
- (c) Vibration
- (d) All of these

(iv) Air compressor is a device where air pressure is _____.

- (a) above atmospheric pressure
- (b) below atmospheric pressure
- (c) below absolute pressure
- (d) above absolute pressure

(v) Which of the following is vulnerable to earthquake loading _____?

- (a) Welded joints
- (b) Riveted joints
- (c) Bolted joints
- (d) All of the mentioned above

(vi) _____ is the pressure relative to the atmospheric pressure.

- (a) Atmospheric pressure
- (b) Gauge pressure
- (c) Absolute pressure
- (d) All of the mentioned above

(vii) Which of the following equipment is necessary for major construction project ?

- (a) Special equipment
- (b) Standard equipment
- (c) Both of the above
- (d) None of the above

(viii) Which of the following equipment is used for transporting materials ?

- (a) Hauling equipment
- (b) Hoisting equipment
- (c) Excavating equipment
- (d) None of the above



(ix) Tenders are invited in _____ stage.

- (a) pre-tender
- (b) post-tender
- (c) before acquisition of land
- (d) None of the above

(x) Which of the following is not a major equipment for erecting steel structures?

- (a) Cranes
- (b) Hoists
- (c) Truck
- (d) Winches

2. Answer the following questions :

- (a) Why temperature of concrete ingredients should be controlled while doing concreting in hot weather? 2
- (b) Why delayed setting is necessary in concreting in cold weather? 2
- (c) What is quality control of concrete? 1
- (d) What is job layout? 2
- (e) Write the names of two equipments which are used in erecting steel structures. 2
- (f) What is air compressed air? 2
- (g) Which machine is used in compacting the surface of road? 1

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50(W)

(h) What is hoisting equipment? 1

(i) What is special equipment? 2

PART-B

Marks - 45

3. (a) What is the need for construction economy? 4

(b) What is construction economy? What are the duties of an engineer and a contractor with respect to construction economy? 1+10=11

4. Why job layout is necessary? Explain the various factors governing the job layout of a construction project. 3+7=10

Or

Explain how quality of concrete can be controlled in a construction project. 10

5. What is a framed structure? Explain how placing of concrete in cold and hot weather can be done. 5+10=15

6. What are the differences between standard equipments and special equipments? 5

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50(W)

