## **END SEMESTER EXAMINATION / RETEST - 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 not for the questions.

## Instruction:

 Answer all the questions from PART – A and PART – B.

PART - A

Marks - 25

- 1. Choose the correct answer from the options given below the statement:  $1 \times 10=10$ 
  - (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

-611/CM&M (2)	(d) All of the mentioned above	(b) Gauge pressure	(a) Atmospheric pressure	atmospheric pressure.	(c) Pumps	(a) Drilling (b) L	iv) Air compressor is used in_	<ul><li>(c) Scrapper</li><li>(d) All of the mentioned above</li></ul>		(iii) is not a compacting equipment.	(c) Scraper (d) C	(a) Dredger (b) E	(ii) Which of the following is equipment?
58/0	ve			elative to the	All of these (1	Loosening earth	TRAL L	ove * and * and		ing equipment.	(d) Cranes	Bull dozer	is a hoisting
58/CT-611/CM&M (3)	(d) Dredger	(c) Excavating equipment	(b) Hoisting equipment	(a) Hauling equipment	(viii) Which of the following equipment is used for excavating river bed?	(c) Truck	(a) Cranes	(vii) Which of the follo equipment for erecti	(d) All of the ment	(c) Bolted joints	(b) Riveted joints	(a) Welded joints	(vi) Which of the following earthquake loading
[Turn over		ment	ent	nt	ng equipment is used for	(d) Winches	(b) Hoists	the following is not a major for erecting steel structures?	the mentioned above				llowing is useful for

58/C7

58/CT-6	(6)	( <del>b</del> )	2. (a)				×			e e
58/CT-611/CM&M (4) 50(B)	Why quality control of concrete should be maintained?	Why watering of form work is necessary in concreting in hot weather?	Why temperature of concrete ingredients should be controlled while doing concreting in cold weather?	(d) None of the above	(b) Standard equipment (c) All of the above	(a) Special equipment		(c) before acquisition of land  (d) None of the above	(a) pre-tender (b) post-tender	(ix) Execution of construction work is done in stage.
58/CT-611/CM&M (5) [Turn over	various stages of construction project ? 1+10=11	(b) What is construction economy? What are the	Marks – 45  3. (a) What are the costs involved in construction	PART - B	(i) What is standard equipment?	(h) What is hauling equipment?	(g) Which machine is used in scraping surfaces of road?	(f) Write two uses of compressed air. 2	(e) Write the name of two equipments which are used in compacting earth.	(d) Why job layout is necessary? 2

(5)

[Tum over

 Draw a diagram of job lay out for a construction project showing necessary components. 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. Write down the five disadvantages of high rise building. What are the precautions to be taken during construction of multistoried building?

  5+10=15
- 6. Write down the five advantages of framed structures.

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