## CT-611/CM&M/6th Sem/2017/N

## CONSTRUCTION METHODS AND MACHINES

Full Marks - 70

Pass Marks - 28

Time - Three hours

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

Answer all questions.

## PART-A

- 1. Choose the correct answer from the options given below the statement:  $2\times5=10$ 
  - (i) Construction economy can be achieved by
    - (a) Engineers
    - (b) Contractors
      - (c) Both (a) and (b) above
      - (d) Client.

(iii)	Which of the following is a hauling equipment?	(	v)	Which of the following is vulnerable to earthquake loading?	
	(a) Tractor			(a) Welded joints	
	(b) Bull dozer			(b) Riveted joints	
	Carpation Manager			(c) Bolted joints	
	(c) Scraper (d) Cranes.			(d) All of the mentioned above.	
	The compaction process can be accomplished by which process?	2. (	(a)	Why temperature of concrete ingredients should be controlled while doing concreting in hot weather?	
	(a) Rolling		(b)	Why delayed setting is necessary in concreting in cold weather?	
	(b) Tampering				,
	(c) Vibration		(c)	What is quality control of concrete?	
	(d) All of the mentioned above.		(d)	What is job layout?	) .
(iv)	Air compressor is a device where air pressure is		(e)	Write the name of two equipments which are used in erecting steel structures.	e 2
			(f)	Mention two uses of air compressor.	2
	<ul><li>(a) above atmospheric pressure</li><li>(b) below atmospheric pressure</li></ul>		(g)	Which machine is used in compacting the surface of road?	e
	(c) below absolute pressure		(h)	What is hoisting equipment?	1
	(d) above absolute pressure.		(i)		2
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## PART - B

- 3. (a) What are the cost involved in the construction project?
  - (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
- 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 differences between standard and special equipments?

Mention the last of the continued