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CT-611/CM&M/6th Sem/2018/M

**CONSTRUCTION METHODS
AND MACHINERY**

Full Marks - 70

Time - Three hours

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

PART - A

Answer *all* questions.

1. Choose the correct answer from the options given below the statement : $1 \times 10 = 10$
- (i) Construction economy is a responsibility of _____.
- (a) Engineers
- (b) Contractors
- (c) Both (a) and (b) above
- (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 the mentioned above

(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) All of the above
 - (d) None of the above

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 the differences between standard and special equipments ? 5