Total No. of printed pages = 6

END SEMESTER EXAMINATION - 2020

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:

Questions of PART-A are compulsory. 1.

2. Answer all questions from PART-B.

PART – A

Marks - 25

- 1. Choose the correct answer from the options given below the statement : 1×10=10
 - (i) Construction economy is a responsibility of (b) Contractors
 - (a) Engineers
 - (c) Both (a) and (b) * (d) Client

[Turn over

UTE OF TH

(ii)	Which	of	the	following	is	a	hauling
	equipment			2	5 Sec		

- (a) Tractor (b) Bull dozer
- (c) Scraper (d) Cranes
- (iii) Which one of the following is not a part of the compaction process?
 - (a) Rolling (b) Tampering
 - (c) Vibration (d) Excavation
- (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 suitable for earthquake loading ?
- (a) Welded joints (b) Riveted joints
 - (c) Bolted joints (d) (b) and (c)

32/CT-611/CM&M

UTE OF TECHN

(2)

(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
- (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

32/CT-611/CM&M

(3)

*

LIBRAD

[Turn over

(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. (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) Write two governing factors for job layout

32/CT-611/CM&M

(4)

50(W)

(e)	Write the name of two equipments which are				
	used in compaction of earth.	2			
(f)	What is absolute pressure?	2			
(g)	Which machine is used in compacting surface of road?	the 1			
(h)	What is hoisting equipment?	1			
(i)	What is standard equipment?	2			

PART – B

Marks - 45

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

- (b) What is construction economy? What are the duties of an engineer and a contractor with respect to construction economy? 1+10=11
- Why job layout is necessary ? Explain the various factors governing the job layout of a construction project. 3+7=10

Or

Explain how placing of concrete in cold and hot weather is done.

32/CT-611/CM&M

(5)

[Turn over

- 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

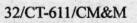
ANE LIBRAR

TTE OF TECH

(6)

事

RAMAR



50(W)