

**DIPLOMA IN CIVIL ENGINEERING
DCLE(G) / DCLEVI**

Term-End Examination

June, 2017

00944

BCEE-052 : CONSTRUCTION EQUIPMENT

Time : 2 hours

Maximum Marks : 70

Note : Attempt any **seven** questions. All questions carry equal marks.

1. Enlist different types of Road Rollers. Discuss the use of Sheep Foot Roller with a neat line sketch. 10
2. What are the two types of Hot-Mix Asphalt Plants ? Explain any one of them in detail. 10
3. What is the working principle of an air compressor ? How many types of compressors are there ? Explain any one of them. 4+4+2=10
4. How is the output of a Bulldozer calculated ? Explain the methodology in steps. 10

5. Explain the following in the context of Plant and Machinery : 10
- (a) Documentation
 - (b) Depreciation
6. Explain the functions of a Power Shovel ? How and where is a power shovel preferred for use over a dragline ? 5+5=10
7. Why are pneumatic tools preferred over electrical equipment in the construction industry ? Give at least five reasons and explain them. 5+5=10
8. Explain the difference between Preventive Maintenance and Breakdown Maintenance. 10
9. Write short notes on the following : $4 \times 2 \frac{1}{2} = 10$
- (a) Inspection of Plants and Equipment
 - (b) Centrifugal Pumps
 - (c) Belt Conveyors and Escalators
 - (d) Log Books
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