

**Diploma in Electrical And Mechanical  
Engineering  
DCLEVI/ACCLEVI**

**Term-End Examination  
June, 2012**

**BET- 045 : CONSTRUCTION PLANTS/  
EARTH MOVING PLANTS/MECHANICAL  
TRANSPORT**

*Time : 2 Hours*

*Maximum Marks : 70*

*Note : Out of the Seven question, answer only five questions.  
Question No 1 is compulsory. All questions carry  
equal marks.*

1. Fill in the blanks : 7x2=14
- (a) Machine history sheet is used for \_\_\_\_\_ machines.
- (b) The transfer of savings in the budget provision under one sub or Minor Head to meet expenditure under another with the approval of competent Financial Authority is called \_\_\_\_\_ .
- (c) The compaction of narrow and restricted areas is done by \_\_\_\_\_ rammers.
- (d) Major Head code for Defence Services Navy is \_\_\_\_\_ .
- (e) A mixture of bitumen and inert material is called \_\_\_\_\_ .

- (f) Final rolling of Water Bound Macadem Pavements is done by \_\_\_\_\_ rollers.
- (g) 10/7 Concrete mixer takes \_\_\_\_\_ cft of unmixed material and \_\_\_\_\_cft of mixed concrete.
2. Explain the main components of cooling system and various causes of heating. 14
3. What do you understand by the terms T and P and Mobile plants ? Discuss the classification of prime mover plants and towed plants. 14
4. What do you understand by air compressor ? Discuss briefly the various type of compressors. 14
5. (a) What are the major factors on which the out put of a dozer depends ? 7
- (b) Discuss the various functions / operations of a motor grader. 7
6. What is a centrifugal pump ? What factors you will consider in selecting a centrifugal pump ? 14

7. Write short notes on *any four* of the following :

**4x3½=14**

- (a) Air intake system
  - (b) Vehicle log book
  - (c) Lubrication System
  - (d) Pump Installations
  - (e) Plant Record Book.
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