

**Diploma in Electrical & Mechanical
Engineering**

00501

**Term-End Examination
December, 2010**

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

Time : 2 hours

Maximum Marks : 70

Note : Out of seven questions. Only Five questions have to be answered. Question number One (1) is compulsory. All question carry equal marks.

Answer the following questions by filling in the blanks. 7×2=14

1. (a) The estimates for Sewage disposal installations are prepared on Form _____
- (b) The percentages on the Capital value of Refrigerators and A/C issued on hire for Repairs is _____% and Renewals is _____%
- (c) The return showing position of vehicles as on last day of each month is called _____ and known as part _____ order
- (d) Indicate the equivalent Lorry units for the following
 - (i) Trailer 10 cut 2 Wheeled GS _____
 - (ii) Crane 3 Ton, Lorry mounted _____

- (e) The towed plants Requires field repairs are classified as ____ repairs.
- (f) The discharge of pump may be measured by means of (i)_____ (ii)_____
2. Name the types of stone crusher. Give a neat sketch of any One type labelling the various parts. 4+10=14
3. Name any Four types of Air compressors. Explain the functioning of any one of them with neat sketch. 4+10=14
4. Explain the following terms in equipment:
- (a) Random Failure 4x3½=14
- (b) Computation of out put Power for the useful work done
- (c) Wearing Failure
- (d) Start up Failure
5. Enumerate the main governing Factors while Transporting through. 6+4+4
- (a) Rail (b) Sea (c) Air
6. What is the necessity of Lubrication System ? 6+8=14
Explain main components of sump.
7. Explain the Earthwork output calculations for the following. 6+8=14
- (a) Bulldozer
- (b) Motor Graders.
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