

01352

Diploma in Electrical & Mechanical Engineering

Term-End Examination

June, 2011

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

Time : 2 hours

Maximum Marks : 70

Note : Out of the *seven* questions attempt *any five*, Question *No.1* is compulsory.

Answer the following questions by filling in the blanks.

1. (a) The percentages on the capital value of Refrigerators and A/c s issued on hire for Repairs is _____ % and renewal is _____ % respectively.
- (b) E & M renewals costing more than Rs. _____ are treated as special repairs.
- (c) Chief engineer office is authorised _____ number of M/C and _____ number of Car 4 seater.
- (d) Daily running record of vehicle is maintained in _____ .
- (e) Out Put power is computed from the _____ by the pump and is expressed as $kW = \frac{\quad}{6131}$.
- (f) Vibratory rollers are used for compacting _____ soils.

2. List out any Six types of Pneumatic tools. Explain the functioning of any one with neat diagram. $6+8=14$
3. Differentiate between Hot mix and Cold mix Asphalt plant. Explain Filter Storage Bin with neat sketch. $6+8=14$
4. What are the three classifications of Rotodynamic Pumps? Explain functioning of Centrifugal Pump with neat sketch. $3+11=14$
5. (a) Discuss the parts and accessories of an air compressor. 6
(b) What do you understand by T & P. Explain the various categories of MES T & P. $3+5=8$
6. What are the functions of fuel system? Explain the main components of PTG fuel system. $5+9=14$
7. Write short notes on the following. $4 \times 3\frac{1}{2}=14$
- (a) Changes in Grants.
 - (b) Schedule of Demands
 - (c) Types of Concrete Mixers
 - (d) Earth work Calculations
-