DIPLOMA IN CIVIL ENGINEERING DCLE(G) DCLEVI

01793

Term-End Examination December, 2012

BCEE-052: CONSTRUCTION EQUIPMENT

Time: 2 hours Maximum Marks: 70

Note: Question 1 is compulsory. Attempt any four questions out of the remaining questions. Use of calculator is permitted.

- Select the correct alternative from the given four choices in questions(a) to (g) below.
 7x2=14
 - (a) Salvage value of an equipment is.
 - (i) the initial cost
 - (ii) the cost at the end of life
 - (iii) equal to depreciation
 - (iv) none of the above
 - (b) Which of the following may be used for transporting soil?
 - (i) Trucks
 - (ii) Bulldozers
 - (iii) Hoe
 - (iv) All the above

electricity wires at (c) Uncovered construction site may lead to: savings of money (i) (ii) saving of electricity (iii) improved progress of work accidents (iv) Which of the following is/are important at (d) a construction site? (i) Good drainage (ii) Safety against thefts (iii) First aid facility (iv) all the above Which of the following are important for (e) quality control of construction? tests for quality assessment (i) adequate supervision (ii) proper drainage of site (iii) all the above (iv) Which of the following may affect the cost (f) of construction? cost of equipment (i) (ii) cost of labour

(iii) cost of materials

(iv) all the above

	(g)	Straight line method may be used for:	
		(i) determining total cost of project	
		(ii) deciding the layout of drains	
		(iii) determining depreciation	
		(iv) none of the above	
	(a)	What do you understand by rolling resistance of a construction equipment? Discuss giving examples.	7
	(b)	Discuss use of crane in construction giving examples.	7
	Discuss 'Sum of the years digits method' with an example. Discuss how the speed, time of rolling, length of drum, number of drums, fraction of overlap and layer thickness affect number of passes required for a roller to compact a given volume of earth.		14
			14
	con	at are different types of dumpers, used in struction? How dumpers are different from tks?	14

2.

3.

4.

5.

- 6. What do you understand by 'Ready mixed 14 concrete', abbreviated as RMC? Discuss the manner of its production and transportation. What would you do to maintain its workability during its transportation?
- 7. Write short notes on any two of the following: 2x7=14
 - (a) Use of escalators
 - (b) Trenchers
 - (c) Cable ways