SERAMPORE COLLEGE

DEPARTMENT OF COMMERCE

B.COM 2ND **SEMESTER (Hons)**

COST AND MANAGEMENT ACCOUNTING - I

APPORTIONMENT AND ALLOCATION OF OVERHEAD:

Overhead means indirect expenses which are incurred in manufacturing process after Prime Cost consisting of Direct Expense to produce Finished Product.

Overhead distribution among various Production Department and Service Department is very important in Cost Accounting System.

ALLOCATION:

Many overhead cost can easily be identified with original departmental production or service such as indirect material, Labour, Supervision, Repair, Depreciation on Machinery etc.

At the time of Primary Distribution all these overhead are allocated to that specific department.

APPORTIONMENT:

Many overhead cost are incurred for factory as a whole not for any particular department such as Rent, Power, Insurance of Building etc.

At the time of primary distribution all those overhead cost are apportioned among manufacturing and service department.

PRIMARY DISTRIBUTION:

The process of allocation and apportion of different overhead costs to manufacturing and service department is known as Primary Distribution. In doing so no difference is made between manufacturing and service department.

SECONDARY DISTRIBUTION:

Service department does not produce any saleable product but it is essential for running Manufacturing Process. Expenses of service department are absorbed by manufacturing department that is to say the process of re-allocation of total of each service department to manufacturing department and other service department is known as Secondary Distribution.

First we make primary distribution and then we make Secondary Distribution to find the total cost of each manufacturing department.

Some common manufacturing overhead costs are apportioned on the following basis:

COMMON MANUFACTURING COST	BASIS OF DISTRIBUTION
Rent	Floor area (square feet)
Depreciation on Building	Floor area (square feet)
Depreciation on Machinery / Repair	Machine Value
Lighting	Light Point
Indirect Material	Direct Material
Workers Welfare Expense	No. of. Workers
Indirect Wages	Direct Wages
Consumable Stores / Stores	Direct Material
Sundry Expenses	Direct Wages
Canteen Expenses	No. of. Workers
Power	Kilowatt Hr / H.P. of Machine
Supervisor Expense	No. of. Workers
General Overhead	Direct Wages
Audit Fees	Sales

NOTE:

Direct Material, Direct Labour, Chargeable Expenses will be charged to service department only not to production department under overhead distribution system.

PROBLEM:

Calculate overhead allocation to production department X & Y from the following. There are also two service department A & B. A renders service to B Rs 12000 and balance to X & Y in the ratio 3:2, B renders service to X & Y as 9:1.

	X	Y	A	В
Floor Area (Sq. ft)	5000	4000	1000	2000
Plant (in Rs lakhs)	10	5	3	1
Horse Power(H.P) of machine	1000	500	400	100
No. of workers	100	50	50	25
Light Points	50	30	20	20
Direct Material (in Rs)	15000	10000	8000	4000
Direct Labour (in Rs)	5000	4000	5000	2000

Other expenses & charges for a month are as follows

Depreciation of machine	Rs 190000	
Rent & Rates	Rs 36000	
Insurance of Factory	Rs 12000	
Power	Rs 24000	
Canteen Expense	Rs 10800	
Electricity	Rs 20000	
Sundries	Rs 48000	
Supervision Expense	Rs 18000	

SOLUTION:

ALLOCATION AND APPORTIONMENT OF FACTORY OVERHEAD TO PRODUCTION AND SERVICE DEPARTMENT:

PRIMARY DISTRIBUTION									
DETAILS	BASIS OF ALLOCATION	TOTAL	PRODUCTION DEPT		SERVICE DEPT				
			Х	Υ	Α	В			
Depreciation of Machine	cost of machine (10:5:3:1)	1,90,000	1,00,000	50,000	30,000	10,000			
Rent & Rates	Floor Space (5:4:1:2)	36,000	15,000	12,000	3,000	6,000			
Factory Insurance	Floor Space (5:4:1:2)	12,000	5,000	4,000	1,000	2,000			
Power	Light Points (5:3:2:2)	24,000	10,000	6,000	4,000	4,000			
Canteen Expense	No. of. Workers (4:2:2:1)	10,800	4,800	2,400	2,400	1,200			
Electricity	H.P. Of Machine (10:5:4:1)	20,000	10,000	5,000	4,000	1,000			
Sundry Expenses	Direct Labour (5:4:5:2)	48,000	15,000	12,000	15,000	6,000			
Supervision Expenses	No. of. Workers (4:2:2:1)	18,000	8,000	4,000	4,000	2,000			
		3,58,800	1,67,800	95,400	63,400	32,200			
	ION OR REAPPORTIONMENT OF SERVITO PRODUCTION DEPT f service Dept B Rs 12,000 to Dept A	VICE DEPT			12,000	-12,000			
					75,400	20,200			
Absorbtion of b	alance of service dept B to X & Y as 3:	2	12,120	8080		-20,200			
			1,79,920	1,03,480					
Absorbtion	n of service dept A to X & Y as 9:1		67860	7540	-75400				
TOTAL OVERHEAD AS ALLOCATED		2,47,780	1,11,020						

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