## Eastern University, Sri Lanka Faculty of Commerce and Management First Year Second Semester Examination in Bachelor of Business Administration/ Bachelor of Commerce - 2017/2018 (Jan 2020) (Proper/Repeat) DAF 1023 Cost and Management Accounting

						No. of Questions: 05			
						No. of Pages: 04			
alcu	lators a	are permitted				Time: 03 Hours			
1.	(I)	What is me	ant by cost accounting	g? Expla	in the objectives of	cost accounting.			
	(11)	01				(05 Marks)			
	(11)	Classify the	e cost using different b	asis.					
	(111)	(III) The following is a summary of the receipts and issues of material in a fac January 2019:							
		1 Ope 5 Issu 10 Issu 15 Rec 20 Rec 24 Issu 28 Rec Work out or at the end o	ning balance 500 units ed 70 units eived from supplier 20 eived from supplier 24 ed 300 units eived from supplier 10 n the basis of First-in-l f January.	s @ 25   0 units ( 0 units ( 0 units ( First-out	per unit @ Rs. 30 per unit @ Rs.32per unit @ Rs. 35 per unit . What would be th	e value of stock in hand			
	(IV)	Ram enterp	rises manufacture a	special	product M. The fol	(05 Marks) lowing particulars were			
		collected.							
			Re – order quantity	250	units per week				
			Normal usage	50	units per week				
			Minimum usage	25	units per week				
			Maximum usage	75	units per week				
			Re – order period	4 - 6	weeks				
		You are requ	ured to calculate						

- a) Re order level
- b) Minimum stock level
- c) Maximum stock level

(05 Marks) (Total: 20 Marks)

02.

(I) A company makes a single product with sales price of Rs. 12 and a variable cost of Rs. 6. Fixed costs are Rs. 102,000 per annum. Calculate:

- a) Break even point expressed in units and sales (in rupees).
- b) C/S ratio.
- c) Number of units that must be sold to earn a profit of Rs. 60,000.

- d) What level of sales will be achieved a profit of Rs. 60,000?
- e) Because of increasing costs, the variable cost is expected to rise by 25% fixed cost to 130,000 p.a. If the selling price can not be increased what v the number of units required to maintain a profit of Rs. 60,000 p.a?

(0)

- The Break even point of the manufacturing company is Rs. 200,000. Fixed of (11) Rs. 50,000 and variable cost is Rs. 36 per unit.
  - You are required to calculate. a) Contribution margin ratio

  - b) Selling price per unit
  - c) Margin of safety at the sales levels of 12,000 units.
- Delta industry uses a special components, which would be purchased from (111) firm. The company estimated that 40000 components are required per y following unit cost has to be incurred if a component is manufactured company.

Direct material:	Rs. 12.00		
Direct labor:	Rs. 14,50		
Variable overhead:	Rs. 5.75		
Fixed over head:	Rs. 6.75	1	1
Total	Rs. 39.00		

The fixed overhead rate is absorbed on the basis of direct labour h component could be purchased for Rs. 35.00 each from the outside supplier.

- a) As a cost accountant suggest to the management whether components purchased or manufactured.
- b) What other factors should the company consider before finalising w purchase or manufacture the component?

(0 (Total: 2

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- 03.
- AB Ltd has three production departments A, B and C with two service depart (1) D and E. From the following figures extracted from the records of the compa

	1.01
Rent and rates	25000
General lighting	3000
Indirect wages	7500
Electric power for machinery	7500
Depreciation of machinery	50000
General expenses	50000
Total	143000

Item	Total	А	В	С	D	
Direct expenses Rs.	50000	15000	10000	15000	7500	1
Value of machinery Rs.	1250000	300000	400000	500000	25000	2
Floor space (Sq.mt.)	10000	2000	2500	3000	2000	
H.P of machines	150	60	30	50	10	
No. of light points	60	10	15	20	10	

Production	hours	6226	4028	4066	-	
worked						

The expense of service departments D and E are to be apportioned as follows:

Service department	A	В	С	D	Е
D	20%	30%	40%	NGN	10%
alan tarr man	40%	20%	30%	10%	-

- a) Calculate overhead absorption rate of production departments using simultaneous equation method or repeated distribution method for the secondary distribution.
- b) Determine the total cost of a product whose direct material cost and direct labour cost are Rs.250 and Rs.150 respectively and which would consume 4 hours, 5 hours and 3 hours in department A, B, and C respectively.

(10 Marks)

(II) The following figures are taken from the records of company for the year 2018 - 2019.

	Material		Х	Y	Z
	Material turn over ratio	÷	27 times	3 times	16 times
	Number of days the average inventory is held	1	14 days	122 days	23 days
(	Categorize the materials with justifications bas	ed	on its mov	ing speed	

(05 Marks)

- (III) Mr. X works in a factory where the following particulars are available:
  - 1. Normal rate per hour is Rs. 60
  - 2. Normal piece rate per hour is 20% more of time rate
  - 3. Expected output is 20 units per hour
  - 4. Mr. X produced 200 units in 8 hours a day

Calculate his wages for the day on;

- a) Time rate basis
- b) Piece rate basis

(05 Marks) (Total: 20 Marks)

**04 (I)** In a manufacturing company monthly wage guaranteed for a worker is Rs. 5000 and standard out put for the month is 1000 units representing 100 % efficiency. The monthly wage paid with out bonus to those workers who show up to 70 % of the efficiency standard. Additional production bonus is Rs.100 for each percentage of actual production exceeding 70% of efficiency standard.

Actual production of workers in this company during the month of April, 2019 is given as follows

Workers	Outputs (Units)
А	750
В	1250
С	700

You are require to calculate monthly gross earnings of three workers of A, B and C.

(05 Marks)

The data regarding inventory of a company are given below. About 50 iter (11) required every day for a machine. A fixed cost of Rs. 50 per order is incur placing an order. The inventory carrying cost per item amounts to Rs. 0.02 pt Compute economic order quantity (EOQ).

(05)

A company decides to buy pistons from the market. The demand is 60 pisto (111) day. Ordering cost is Rs.5000 per order and the carrying cost is 15% of the the piston per annum. Assume 300 working days in a year.

Price schedule is given below.

Quantity ordered	Unit Price
0 - 1999	65
2000 - 4999	60
5000 - 10000	55
Over 10000	50

a) What is the optimum order quantity?

b) what would be the minimum inventory cost for such an optimal order policy

(10 (Total: 20

05

ROACL Ltd produces three products. The following information is given (1). current year.

Product	•	A	В
Selling price per unit in Rs.		200	150
c/s ratio (%)		20%	20%
Maximum sales potential in units		15000	8000
Deventarial required in units (@ P	a 2.00 per unit)	4	5

Raw material required in units (@ Rs. 2.00 per unit)

The fixed expenses are estimated Rs.300000. The company uses a sin material in all three products. During the current year, the raw material is supply with the value of Rs. 200000 for manufacture and meets sales demand You are required to set product mix which will give a maximum profit keeping short supply of raw materials in view.

(08

From the following information given below, you are required to prepare (11). budget for the three months of August, September, and October in the year of the Safrex Peripherals (pvt) Ltd. Clearly shows the cash surplus or defic each month.

2020	Total sales	Purchases	Salaries and	Othe
Months	(Rs.)	(Rs.)	wages(Rs.)	exper
June	150000	60000	10000	200
July	180000	70000	12000	220
August	210000	70000	12000	270
September	190000	80000	15000	300
October	250000	90000	15000	350

1. The expected cash balance on 1<sup>st</sup> August 2020 would be Rs. 90000.

2. 10% of sales are on cash basis.

3. 50% of credit sales collected in the 1<sup>st</sup> month after the sale.

4. 45 % of credit sales is collected in the 2<sup>nd</sup> month after the sales and the . is to be treated as had daht

5. Period of credit as follows other than sales

	Purchases	~	02 months
	Salaries and wages	-	1/2 month
1	Other expenses	-	01 month

- 6. Plant and machinery will be installed in September 2020 at a cost of Rs. 100000. The monthly installment of Rs. 25000 is payable on September onwards.
- 7. Annual depreciation charge of Rs. 36000 is included in other expenses
- 8. Divident income of 15% on preference share capital of Rs.500000 will be paid in October
- 9. Advance of Rs. 9000 to be received for the sale of vehicles in September.
- 10. Dividend from investment amounting to Rs. 15000 are expected to receive in August.
- 11. Income tax advance is to be paid in August Rs. 10000.

## (08 Marks)

- a) An enterprise is considering replacing its professional legal advisers with its own (111) newly trained personnel. The relevant personnel are currently employed in the secretarial department of the enterprise and will receive no pay increase when taking up their new responsibilities. They will also be required to continue to perform their old duties. The current annual salary bill of these employees amounts to Rs.100,000. Is the Rs.100,000 a relevant cost in the decision on whether to replace the professional advisers?
  - b) An enterprise is considering the upgrading of its computer system. The upgrading would result in the annual maintenance contract fee charged by the suppliers rising from Rs.30,000 to Rs.40,000. Is the maintenance fee a relevant cost to the upgrading decision? Briefly explain your reasoning.

(04 Marks) (Total: 20 Marks)