

**URUMU DHANALAKSHMI COLLEGE**  
**Department of Commerce (UA)**

**I-M.Com Model Question Papers:**

<b>Sl. No.</b>	<b>Title of the Subjects</b>	<b>Subject code</b>
1	Advanced Financial Management	P16MC21
2	Quantitative Techniques for Business Decision	P16MC22
3	Human Resource Management	P16MC23
4	Fundamentals of Information Technology	P16MC24
5	Organizational Behaviour	P16MCE2A

Urumu Dhanalakshmi College

Department of commerce( UA)

## QANTITATIVE TECHNIUES FOR BUSINESS DECISION

Time : 3 Hours

I M .Com

Maximum: 75 marks

## Section A (10x2=20)

1. Define quantitative techniques.
2. Give the formula for the Regression equation of X on Y
3. What do you mean by Probability?
4. Write the formulation for the Poisson distribution.
5. Write one condition for applying the chi-square test.
6. When one-way classification of variance is used?
7. What do you meant by initial basic feasible solution?
8. Difference between slack and surplus variable.
9. Define interpolation.
10. Write the formula for Newton's method of backward differences.

## Section B (5x5=25)

Answer ALL questions

- 11.a). What are the importance of the quantitative techniques?

Or

- b) Find the Karl Pearson's co-efficient of correlation for the following data.

X:	65	66	67	67	68	68	71	73
Y:	67	68	64	68	72	70	69	70

- 12.a) State and prove the addition theorem of probability.

Or

- b). A box contain 6 red ,4 white and 5 yellow balls. A person draws 4 balls from the box at random. Find the probability that among the balls drawn here is at least one ball of each colour.

13.a) Explain the following terms

- i. Hypothesis
- ii. Type I and Type II error
- iii. Critical region.

Or

b) In one sample of 8 observations, the sum of the squares of deviations of the sample values from the sample mean was 84.4 while in another sample of 10 it was observed as 102.6. test whether this difference is significant at 5% level.

14.a). A person requires 10, 12 and 12 units of chemicals A, B and C respectively for his garden. A liquid product contains 5, 2 and 1 units of A, B, C respectively per jar. A dry product contains 1, 2 and 4 units of A, B and C per carton. How many of each should be purchased in order to minimize the cost and meet the requirement. (Form the LPP)

Or

b) Use Simplex method to

$$\text{Min } Z = x_2 - 3x_3 + 2x_5$$

$$\text{Subject to } 3x_2 - x_3 + 2x_5 \leq 7$$

$$-2x_2 + 4x_3 \leq 12$$

$$-4x_2 + 3x_3 + 8x_5 \leq 10$$

$$\text{And } x_2, x_3, x_5 \leq 0$$

15. a). interpolate Y when  $X = 32$  from the following

X :	30	34	36	38	40
Y:	340	353	358	364	369

Or

b) Explain the methods of interpolation

Section C (3x10=30)

Answer any THREE questions

16. Discuss the different classification of Quantitative Techniques.

17. Fit a binomial distribution when the experiment is repeated 128 times when seven coins are tossed and number of heads are noted

No. of heads	0	1	2	3	4	5	6	7
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Frequencies	7	6	9	35	30	23	7	1
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18 in a sample study the following information was obtained

Days :	Mon	Tuesday	Wed	Thus	Fri	Sat
Spareparts demanded:	1124	1125	1110	1120	1126	1115

Test the hypothesis that the spare parts demanded does not depend on day of the week ( $\chi^2_{5,0.05} = 11.07$ ).

19. From the given matrix find out how men should be assigned the jobs in way that will minimize the total time taken

			Jobs				
			I	II	III	IV	V
	A		2	9	2	7	1
MEN	B		6	8	7	6	1
	C		4	6	5	3	1
	D		4	2	7	3	1
	E		5	3	9	5	1

20. from the following series ,obtain (i) the missing value for 12<sup>th</sup> year using Newton's method

(ii) parabolic curve method

X:	5	10	12	15	20
Y :	4	14	?	24	34

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Department of commerce( UA)

**QANTITATIVE TECHNIUES FOR BUSINESS DECISION**

I M.Com

Time : 3 Hours

Maximum: 75 marks

**Section A (10x2=20)**

Answer ALL questions

1. Define quantitative techniques.
2. Difference between correlation and regression analysis
3. Under what conditions poisson distribution is applicable?
4. Make a brief note on dependent events.
5. What do you mean by Yate correction?
6. List out the assumptions of t test.
7. Define linear programming.
8. State two advantages of graphical method.
9. Explain the term interpolation and extrapolation.
10. Write a short note on binomial Expansion method of interpolation.

**Section B (5x5=25)**

Answer ALL questions

11. a) Write down the classification of quantitative techniques.

Or

b) the following data relate to age of employees and the number of days they were reported sick in a month.

	Employees									
	1	2	3	4	5	6	7	8	9	10
Age (x)	30	32	35	40	48	50	52	55	57	61
Sick days (y)	1	0	2	5	2	4	6	5	7	8

Calculate Karl Pearson's coefficient of correlation and interpret it

12.a). Set up a sample space for the single toss of a pair of fair dice. from the sample space , determine the probability that the sum in tossing a pair of dice is either 7 or 11.

Or

b) the number of defects per unit in a sample of 330 units of a manufactured product was found as follows:

number of defects :	0	1	2	3	4
Number of units :	214	92	20	3	1

Fit a Poisson distribution to the data and test for goodness of fit.

13.a). from the following table test whether the color of the son's eye is associated with that of the father.

		Eye color of sons		
		Not light	light	Total
Eye color in father	Not light	230	148	378
	light	151	471	622
	Total	381	619	1000

Or

b) the following results are obtained from a sample of 10 boxes of biscuits:

mean weight oh contents = 490 gms

standard deviation of the weight = 9 gms

could the sample come from a population having a mean of 500 gms.

14.a). A company manufactures 2 products namely X and Y and sells it respectively for a profit of Rs. 5 and Rs. 4 per unit. These two products are processed by two different machines A and B. the details regarding the processing time for the products and the total capacity per week are stated below:

Products	processing time per unit	
	A	B
X	2	3
Y	1	4
Total capacity per week	40	35

Formulate the above problem into a linear programming problem

Or

b) Determine an initial basic feasible solution to the following transportation problem using North-West corner rule:

	D1	D2	D3	D4	Availability
O1	6	4	1	5	14
O2	8	9	2	7	16
O3	4	3	6	2	5
Requirement:	6	10	15	4	

15.a). Describe the different methods of interpolation.

Or

b) From the following data interpolate the value of Y when X = 1.5

X	1	1.2	1.4	1.6	1.8	2.0
Y	5	6	7.5	9.5	12.0	16.0

Section C (3x10=30)

Answer any THREE questions

16. Discuss in detail about the role of quantitative techniques in business and industry.

17. A ball is drawn at random from a box containing 6 red ball , 4 white balls and 5 blue balls. Determine the probability that it is :

a). Red                      b) white                      c) blue                      d) not red and                      e) red or white

18. the number of parts for particular spare parts in a factory was found to vary from day to day . in a sample study , the following information was obtained:

Day	Mon	Tues	Wed	Thus	Fri	sat	Total
Spareparts demanded:	1124	1125	1110	1120	1126	1115	6720

Test the hypothesis that the number of parts demanded does depend on the day of the week.

19. Solve the problem given below using graphical method.

Minimize  $C = 2x_1 + 2x_2$

Subject to

$$1x_1 + 3x_2 \leq 12$$

$$3x_1 + 1x_2 \geq 13$$

$$1x_1 - 1x_2 = 3$$

$$X_1, x_2 \geq 0.$$

20. Interpolate the figure of population for the year 2001 from the following data:

Year	1985	1995	2005	2015
Population of a town	25,494	29,003	32,528	36,070



SET 3  
Urumu Dhanalakshmi College  
Department of commerce( UA)  
QANTITATIVE TECHNIUES FOR BUSINESS DECISION  
M.Com

P16MC22

I

Time : 3 Hours

Maximum: 75 marks

Section A (10x2=20)

Answer ALL questions

1. What are the scope of Qantitative techniques?
2. What is regression analysis?
3. What are the importance of Baye's theorem?
4. What are the properties of Normal distribution?
5. Differentiate Two-tailed and one-tailed tests of hypothesis.
6. What are the limitations of chi-square test?
7. What are the essentials of linear programming model?
8. What are the types of assignment problem?
9. What is Extrapolation?
- 10 Define Crude death rate.

SECTION B (5x5=25)

Answer ALL questions

- 11.a) What are the advantages of quantitative techniques?

Or

- b) What are the various methods of determining trend in a time series?

- 12.a). Two balls are drawn from a bag containing 8 red and 7 white balls. Find the chance that

- (i) they are both red (ii) they are both white

Or

- b) Explain Binomial distribution and its assumptions.

- 13.a). the table given below shows the data obtained during outbreak of small pox

	Attacked	not attacked	Total
Vaccinated	31	469	500
Not vaccinated	185	1315	1500

Total	216	1784	2000
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Apply Chi-square test

Or

b) Explain the procedure for testing the hypothesis.

14.a) Solve the following transportation problem using LCM method.

		TO			Availability
		A	B	C	
From	I	50	30	220	1
	II	90	45	170	3
	III	250	200	50	4
Required		4	2	2	

Or

b) Describe Mathematical formulation of an assignment problem.

15. a). interpolate Y when X =42 from the following

X :	40	44	46	48	50
Y:	350	363	368	374	379

Or

b) What are the method of obtaining vital statistics

## SECTION C

(3x10=30)

Answer any three questions.

16. Find out rank co-efficient of correlation from the following:

A : 115 109 112 87 98 98 120 100 98 118

B: 75 73 85 70 76 65 82 73 68 80

17. A typist in a company commits the following number of mistakes per page in typing 432 pages.

Mistakes/page :	0	1	2	3	4
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No.of pages:	223	142	48	15	4
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Fit a poisson distribution and test the goodness of fit.

18. 200 digits are chosen at random from a set of tables. The frequencies of the digits are as follows:

Digit :	0	1	2	3	4	5	6	7	8	9
frequency :	18	19	23	21	16	25	22	20	21	15

use chi-square test to assess the correctness of the hypothesis that the digits were distributed in equal numbers in the tables from which they were chosen.

19. Consider a problem of assigning four sales person to four different regions as shown below such that the total sales is maximized.

	1	2	3	4
1	10	22	12	14
2	16	18	22	10
3	24	20	12	18
4	16	14	24	20

20. from the following series ,obtain (i) the missing value for 12<sup>th</sup> year using Newton's method

(ii) parabolic curve method

X:	5	10	12	15	20
Y :	4	14	?	24	34

**URUMU DHANALAKSHMI COLLEGE**  
**Department of Commerce (UA)**  
**HUMAN RESOURCE MANAGEMENT**

**Time:** 3 Hours

**Max. Marks:** 75 Marks

**Section –A [10×2 = 20 Marks]**

**Answer all questions**

1. What do you mean by HRM?
2. Define personnel audit.
3. Define selection.
4. What do you understand by Job Enlargement?
5. What do you mean by Training?
6. What is Job Pathing?
7. What do you understand by performance appraisal?
8. Define QWL.
9. What is open door policy?
10. What is multiple bargaining?

**Section – B [5 × 5 =25 Marks]**

**Answer all questions**

11. a) State the scope of Human Resource Management.  
(OR)
- b) What are the objectives of personnel audit?
12. a) State the needs of Human Resource Planning.  
(OR)
- b) What are the different types of Test?
13. a) List out the significance of training.  
(OR)
- b) Bring out the causes of demotion.
14. a) Point out the limitations of performance appraisal methods.  
(OR)
- b) What are the objectives of QWL?
15. a) Write a short note on “Grievance Rechessal System”  
(OR)
- b) What are the functions of collective bargaining?

**Section – C [3 × 10 = 30 Marks]**

**Answer any three questions**

16. Emphasis the significance of Human Resource Management.
17. Explain the process of Job analysis.
18. How would you organize development programmes for executives?
19. Describe the different forms of participation.
20. Explain the prerequisites for success of collective bargaining.

**URUMU DHANALAKSHMI COLLEGE**  
**Department of Commerce (UA)**  
**HUMAN RESOURCE MANAGEMENT**

**I-M.Com**

**Time:** 3 Hours

**Max. Marks:** 75 Marks

**Section –A [10×2 = 20 Marks]**

**Answer all questions**

1. What is personnel Management?
2. Define Human Resource Information.
3. Define Job Analysis.
4. What is job enrichment?
5. What do you mean by transfer?
6. What is executive development?
7. What is MBO?
8. What is workers participation?
9. What is grievance?
10. Define collective bargaining.

**Section – B [5 × 5 =25 Marks]**

**Answer all questions**

11. a) Distinguish between personnel policies and procedure.  
(OR)
- b) What are the benefits of Human Resource Information?
12. a) Highlight the feature of Human Resource Planning.  
(OR)
- b) List out the objectives of induction.
13. a) State the needs of Training.  
(OR)
- b) Point out the types of promotion.
14. a) What are the objectives of QWL?  
(OR)
- b) Explain the characteristics of worker participation in management.
15. a) What are the features of grievance?  
(OR)
- b) State the advantages of collective bargaining?

**Section – C [3 × 10 = 30 Marks]**

**Answer any three questions**

16. Describe the operative functions of Human Resource Management.
17. Elaborate the various stages involved in selection process of an employee.
18. Out line the process of career planning.
19. Describe the modern methods of performance appraisal.
20. Explain the causes of grievance.

**URUMU DHANALAKSHMI COLLEGE  
DEPARTMENT OF COMMERCE (UA)**

**HUMAN RESOURCE MANAGEMENT**

**Time : 3 Hours**

**I M.Com**

**P16MC23**

**Max. Marks : 75**

**SECTION – A [10X2=20]**

Answer All the Questions

1. Define HRM
2. What is Personnel Policy?
3. Define Manpower Planning.
4. What is Job design?
5. Define Training.
6. What do you mean by carrier planning?
7. Define Performance Appraisal.
8. What is QWL?
9. Define Grievance.
10. What is collective bargaining?

**SECTION – B [5X5=25]**

Answer All the Question

- 11.a) Distinguish between HRM and Personal Management. OR
- b) State the needs of Human Resource Information System.
- 12.a) List out the advantages of Job analysis. OR
- b) What are the different types of Interview?
- 13.a) What are the objectives of promotion ? OR
- b) Bring out the importance of carrier planning.
- 14.a) State the benefit of High QWL. OR
- b) State the characteristics of Workers' Participation in Management.
- 15.a) What are the significance of discipline ? OR
- b) List out the features of collective bargaining.

**SECTION – C [3x10=30]**

Answer any three questions.

16. Discuss the various functions of HRM.
17. Explain the various factors that influence human resource planning.
18. Describe the different methods of training.
19. Explain the steps to make "Performance Appraisal More Effective".
20. Explain the causes of employee grievances.

**URUMU DHANALAKSHMI COLLEGE, KATTUR, TRICHY – 19**

**DEPARTMENT OF COMMERCE (UA)**

**ADVANCED FINANCIAL MANAGEMENT      P16MC21**

**Time:** Three hours

**Maximum:** 75 marks

**SECTION – A (10 x 2 = 20)**

**ANSWER ALL QUESTIONS.**

1. Define Financial Management.
2. Write formula for value of the bond.
3. Write note on CAPM.
4. What is Cost of capital?
5. Write short notes on point of Indifference.
6. Define the term Leverage.
7. What is Working Capital?
8. What is Cash budget?
9. Write a short note on Average collection period.
10. What is Cost of receivables?

**SECTION – B (5 x 5= 25)**

**ANSWER ALL QUESTIONS.**

11. (a) Describe the functions of  
a) Treasurer   b) Controller  
Or

- (b) Write short notes on  
a) Rule of 69   b) Rule of 72

12. (a) Mahohar deposits Rs. 20,000 for 2 years at 10% . Calculate the maturity value of the deposit (FV) if interest is compounded half-yearly.

Or

(b) Venus Ltd had issued 10% debentures of Rs. 1000 each. The debentures are redeemable in 3 instalments of Rs 300, Rs 300 and Rs 400 at the end of the I year, II year and III year. Calculate the value of the debentures if the rate of return requirements by the investor is 12%.

13. (a) Jayasurya Ltd. Issued Rs. 60,000 10% debentures at a discount of 5%. The issue expenses were Rs.2,000. Assuming a tax rate of 40% , compute the before and after tax cost of debt.

Or

(b) Discuss the factors which influence financial planning.

14. (a) Company A and company B are in the same risk class and identical except that A uses debt while B uses equity only. The levered firm A has 10% debentures of Rs.9,00,000.

Both the firm earn 20% on their total assets of Rs. 15 lakhs. The corporate tax rate is 40% and equity capitalization rate is 15% for an all equity company.

- (i) Compute the value of companies A and B using Net Income Approach.
- (ii) Compute the value of companies A and B using Net Operating Income Approach.
- (iii) Calculate the overall cost of capital ( $k_o$ ) for companies A and B.

Or

(b) Two firms X and Y are identical except in the method of financing. Firm X has no debt while firm Y has Rs.2,00,000 5% debentures in financing. Both the firms have a Net Operating Income (EBIT) of Rs. 50,000 and equity capitalisation rate of 12.5%. The corporate tax rate is 50%. Calculate the value of the firm using MM Approach.

15. (a) Mani Ltd. is engaged in customer retailing. You are required to forecast their working capital requirements from the following information.

Projected annual sales	Rs.6,50,000
% of N.P to cost of sales	25%
Average credit allowed to debtors	10 weeks
Average credit allowed by creditors	4 weeks
Average stock carrying ( in terms of sales requirements)	8 weeks
Add 20% to allow for contingencies.	

Or

(b) From the following you are required to calculate

(a) Debtors turnover (b) Average age of debtors.

	2019	2018
Net sales	Rs. 18,00,000	15,00,000
Debtors at the beginning	Rs. 1,72,000	1,60,000
Debtors at the end	Rs. 2,34,000	1,72,000



**SECTION – C (3 x 10 = 30)**

**ANSWER ANY THREE QUESTIONS.**

16. A company 's current year dividend is Rs. 3 per share. The capitalization rate is 12%. What would be the price of the company's share if

- a) Growth in dividend is 0.
- b) Growth in dividend is 8% p.a. for ever.

17. Murugan industries Ltd issued 10,000 10% debentures of Rs.100 each. Tax rate is 50% .Calculate the before tax and after tax cost of debt if the debentures are issued

- a) at par b) at a premium of 10% c) at a discount of 10%

18. Moon Ltd. and Star Ltd. have provided you with the following information's.

**Moon Ltd.**

**Star Ltd.**

Sales (in units)	20,000	20,000
Price per unit	Rs.50	Rs.50
Variable cost per unit	Rs.20	Rs.25
Fixed operating cost	Rs. 4,00,000	Rs. 3,00,000
Fixed financing cost	Rs.1,00,000	Rs.50,000

Which firm do you consider to be more risky and why?

19. Explain the need for object of working capital?

20.The following information is obtained from the bincards of a company.

- (i) Calculate the inventory turnover of materials X, Y and Z.
- (ii) If the prices of materials X, Y and Z are Rs.10,7 and 4 per unit respectively, what is the total turnover of materials consumed?

Find the period for which average inventory of each materials is held.

	<b>X units</b>	<b>Y units</b>	<b>Z units</b>
Purchases	1,20,000	1,08,000	1,20,000
Opening stock	6,000	2,000	10,000
Closing stock	3,000	12,000	18,000

**URUMU DHANALAKSHMI COLLEGE, KATTUR, TICHY – 19**

**DEPARTMENT OF COMMERCE (UA)**

**ADVANCED FINANCIAL MANAGEMENT      P16MC21**

**Time:** Three hours

**Maximum:** 75 marks

**SECTION – A (10 x 2 = 20)**

**ANSWER ALL QUESTIONS.**

1. What is Finance.
2. Define Investment.
3. What is doubling period?
4. Define dividend.
5. What is leverage?
6. Write a short note on financial leverage.
7. Explain the term EBIT.
8. Define capital structure.
9. What is cash inventory?
10. Define Working capital.

**SECTION – B (5 x 5= 25)**

**ANSWER ALL QUESTIONS.**

11. (a) Explain the functions of financial management.

Or

- (b) Discuss the significance of finance function.

12. (a) Calculate the doubling period using the rule of 69, if rate of interest is

a) 10%    b) 12%    c) 15%

Or

(b) Sharada Industries Ltd. has issued 10% preference shares of Rs 1000 each. The maturity period is 10 years. If the required rate of return is 15% , find the value of the preference share.

13. (a) The capital structure and after tax cost of different sources of funds are given below:

Source of funds	Amount Rs.	Proportion to total	After tax cost %
Equity share capital	7,20,000	.30	15
Retained earnings	6,00,000	.25	14
Preference share capital	4,80,000	.20	10
Debentures	6,00,000	.25	8

You are required to compute the weighted average cost of capital.

Or

(b) Calculate operating and financial leverages from the following particulars.

Units sold 5,000                      Selling price p.u Rs. 30

Variable cost per unit Rs.20      EBIT Rs.30,000

10% public debt Rs.1,00,000

14. (a) A new project requires an investment of Rs.600 lakhs. Two alternative methods of financing are under consideration.

1. Issue of equity shares of Rs.10 each for Rs.600 lakhs.

2. Issue of equity shares of Rs.10 each for Rs. 400 lakhs and issue of 15% debentures for Rs.200 lakhs.

Find out the indifference level of EBIT assuming a tax rate of 40% .

Or

(b) Explain the Traditional approach of capital structure.

15. (a) Calculate the optimum production quantity per production run from the following data.

Estimated production                      2,00,000 units

Set-up cost per production run              Rs.200

Carrying cost per unit per year              Rs.5

Or

(b) From the following Balance sheet compute (a) Gross working capital (b) Net working capital.

BALANCE SHEET AS ON 31.12.2019			
Liabilities	Rs.	Assets	Rs.
Share capital	6,00,000	Fixed assets:	
Reserves	1,00,000	land & Buildings	3,00,000
Debentures	3,00,000	Plant & Machinery	4,00,000
Current Liabilities:		Current Assets:	
Bank loan	1,00,000	Investments	1,00,000
Creditors	60,000	Cash	60,000
Bills payable	40,000	Debtors	1,40,000
		Inventory	2,00,000
	<hr/>		<hr/>
	12,00,000		12,00,000

### SECTION – C (3 x 10 = 30)

#### ANSWER ANY THREE QUESTIONS.

16. Mr. Dinesh has rented out a shop for 4 years at an annual rent of Rs. 9000. The tenant has agreed to the condition that the rent will increase by 10% every year. If the required rate of return is 12%, find out the present value of the expected series of rents.

17. A company issues 10,000 bonds of Rs.100 each at 14% p.a. marketing costs are Rs.20,000. bonds are to be redeemed after 10 years and the company is taxed at the rate of 40%

Compute the cost of debt if the bonds are issued

a) at par      b) at a discount of 5%    c) at a premium of 5%

18. A company needs Rs.6,00,000 for construction of a new plant. The following three financial plans are feasible.

1. The company may issue 60,000 equity shares of Rs.10 each.

2. The company may issue 30,000 equity shares of Rs.10 each and 3,000 debentures of Rs.100 each bearing 8% rate of dividend.

The profit before interest and taxes (PBIT) is expected to be Rs.1,50,000. Corporate tax rate is 50%.

Calculate the earnings per share under the three plans. Which plans would you recommend and why?

19. Anand wishes to commence a new trading business and gives the following informations:

1. Total estimated sales p.a . Rs. 6,00,000

2. His fixed expenses estimated at Rs.1,000 per month and variable expenses equal to 5% of his turnover.

3. He expected to fix a sale price for each product which will be 25% in excess of his cost of purchase.

4. He expects to turnover his stock 4 times in a year.

5. The sales and purchases will be evenly spread throughout the year. All sales will be for cash but he expects one month's credit for purchases.

Calculate (a) His estimated profit for the year.

(b) His average working capital requirements.

20. What are the determinants of working capital?

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**URUMU DHANALAKSHMI COLLEGE, KATTUR, TRICHY – 19**

**DEPARTMENT OF COMMERCE (UA)**

**ADVANCED FINANCIAL MANAGEMENT P16MC21**

**Time:** Three hours

**Maximum:** 75 marks

**SECTION – A (10 x 2 = 20)**

**ANSWER ALL QUESTIONS.**

1. What do you mean by financial management?
2. What is dividend decisions?
3. What do you mean by preference share?
4. Define Ratio.
5. Define Cost of capital.
6. What is operating leverage?
7. What is Pay- out?
8. Explain EPS.
9. What is Cycle period?
10. Who is an Controller?

**SECTION – B (5 x 5= 25)**

**ANSWER ALL QUESTIONS.**

11. (a) Explain the Approaches of financial management.

Or

- (b) What is finance function? What are its aims?

12. (a) Mr. Balaji expects to receive Rs.10,000 at the beginning of each year for 5 years. Calculate the present value of the annuity due assuming an interest rate of 8%.

Or

- (b) Doni Ltd is expected to pay a dividend of Rs.30 per share. Dividend is expected to grow at 7% perpetually. Calculate the value of the share if the capitalisation rate is 12%.

13. (a) Anand Ltd. offers for public subscription equity shares of Rs.10 each at a premium of 10%. The company pays an underwriting commission of 5% on the issue price. The equity shareholders expects a dividend of 15%

- a) Calculate the cost of equity capital.

- b) Calculate the cost of equity capital, if the market price of the share is Rs.20

Or

(b) From the following information, find out the degree of operating leverage in the year 2005.

EBIT (2019) Rs.40,000

EBIT (2020) Rs. 50,000

Sales (2019) 1,50,000 units

Sales (2020) 1,80,000 units

14. (a) Alpha company Ltd. has an all equity capital structure consisting of 20,000 equity shares of Rs.100 each. The management plans to raise Rs.30 lakhs to finance a programme of expansion. Three alternative methods of financing are under consideration.

i) Issue of 30,000 new shares of Rs.100 each.

ii) Issue of 30,000 8% debentures of Rs.100 each.

iii) Issue of 30,000 8% preference shares of 100 each.

The company's expected earnings before interest and taxes (EBIT) is Rs.10 lakhs. Determine the earnings per share in each alternative assuming a corporate tax rate of 50 per cent. Which alternative is best and why?

Or

(b) saran Ltd. has earnings before taxes and interest (EBIT) of Rs. 72,000. It expects a return on investments of 12% . Find out the value of the firm according to the Modigliani- Miller (MM) approach.

15. (a) Monthly cash requirements = Rs. 60,000

Fixed cost per transaction= Rs.10

Interest rate on marketable securities = 6% p.a

You are required to calculate optimum cash balance.

Or

(b) A company sells goods on cash as well as on credit. The following particular are extracted from the book of the company.

**Rs.**

Gross sales = 4,00,000

Cash sales = 80,000

Sales returns = 28,000

Debtors at the end	= 36,000
Bills Receivable at the end	= 8,000
Provision for Doubtful debts	= 3,000

Calculate average collection period.

### SECTION – C (3 x 10 = 30)

#### ANSWER ANY THREE QUESTIONS.

16. Explain the Objectives of Financial Management.

17. Skyrocket Ltd is currently paying a dividend of Rs. 3 per share. The dividend is expected to grow at 25% annually for 5 years and then at 7% for ever. What is the present value of the share if the capitalization rate is 14%.

18. The following information's are available in respect of companies M and N.

	Company M	company N
Equity share capital (Rs.10 each)	Rs.20,00,000	Rs.10,00,000
14% debentures	Rs. 5,00,000	Rs. 15,00,000
EBIT	Rs.5,00,000	Rs.5,00,000
Return on capital employed	20%	20%
Tax rate	40%	40%

From the above information , calculate

- Financial leverage
- Rate of return on equity share capital
- Earnings per share

Also state which company's shareholders are in a better financially.

19. Krishna Ltd is expecting an annual EBIT of Rs.2,00,000 The company has Rs,7,00,000 in 10% debentures. The cost of equity capital or capitalization rate is 12.5%.

You are required to calculate the total value of the firm. Also ascertain the overall cost of capital.

20. From the following particulars relating to part No.108, calculate different stocks levels.

- Cost of placing an order                      Rs.20
- No. of units consumed during the year    11,250



3. Annual cost of storage of one unit      Rs.5

Lead time:    Maximum    20 days

                 Minimum    6 days

                 Average    10 days

Maximum for emergency purchases 5 days

Rate of consumption:    Average 15 units per day

                 Maximum 20 units per day

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**Urumu Dhanalakshmi College, Kattur, Trichy -19**

**Department of Commerce**

**Organisational Behaviour (P16MCE2A)**

**Time: 3 hours**

**Maximum: 75 Marks**

**(10X2=20)**

**Section –A**

**Answer ALL questions:**

1. Define Organisational Behaviour.
2. What is meant by grievance?
3. Define 'Attitudes'.
4. What is meant by Locus of Control?
5. Define 'Perception'.
6. What is a moral?
7. What is a 'Reference Group'?
8. Write a note on non-monetary incentives.
9. What is 'grape vine'?
10. What is valence?

**Section –B**

**(5X5=25)**

**Answer ALL questions:**

11. Discuss the 'Economic Man' and 'Social Man' models of behaviour.

**Or**

Explain the nature of OB as a field of study.

12. Explain the different types of values.

**Or**

Discuss the important determinants of personality.

13. Explain the characteristics of motivation.

**Or**

What are the characteristics of learning?

14. What are the benefits of counselling?

**Or**

How are attitudes measured?

15. Discuss the characteristics of organisation culture.

**Or**

Distinguish Classical Conditioning from Operant Conditioning.

**Section –C**

**(3X10=30)**

**Answer any THREE questions:**

16. Discuss the different stages in the OD process.
17. Explain the different approaches to organisational effectiveness.
18. Discuss the influence of personality factors on human behaviour.
19. Explain the barriers to communication. Suggest remedial measures.
20. Discuss the various factors determining morale.

**Urumu Dhanalakshmi College, Kattur, Trichy -19**

**Department of Commerce**

**Organisational Behaviour (P16MCE2A)**

**Time: 3 hours**

**Maximum: 75 Marks  
(10X2=20)**

**Section –A**

**Answer ALL questions:**

1. Mention a few indicators of positive individual behaviour.
2. Write a note on Individual Difference.
3. What is 'Figure Ground'?
4. What is meant by Reinforcement?
5. What is Job Satisfaction?
6. What is meant by leadership?
7. Define motivation.
8. Who is a democratic leader?
9. What are safety needs?
10. Define absenteeism.

**Section –B**

**(5X5=25)**

**Answer ALL questions:**

11. Explain the importance of studying Organisational Behaviour.  
**Or**  
Describe the factors of job satisfaction.
12. Explain the important principles considered in organising stimuli.  
**Or**  
Discuss the effect of the environment factors in an organisation.
13. Discuss the important determinants of perception.  
**Or**  
Describe supervision styles and comment on their merits and demerits.
14. What are the causes of absenteeism?  
**Or**  
Describe the nature of organisational climate.
15. Explain the relationship between morale and productivity.  
**Or**  
Discuss the importance of guidance and counselling in organisations.

**Section –C**

**(3X10=30)**

**Answer any THREE questions:**

16. How are the 'Hawthorne Experiments' useful in understanding organisational behaviour?
17. Discuss the important personality theories.
18. Describe the nature of organisational climate.
19. What are the important determinants of learning? Explain.
20. Discuss the factors that provide scope for organisational politics.

**Urumu Dhanalakshmi College, Kattur, Trichy -19**

**Department of Commerce**

**Organisational Behaviour (P16MCE2A)**

**Time: 3 hours**

**Maximum: 75 Marks**  
**(10X2=20)**

**Section –A**

**Answer ALL questions:**

1. List any four models of organisational behaviour.
2. How group formations help in organizational behaviour?
3. What do you mean by operant conditioning?
4. What is depression?
5. Differentiate between formal groups and informal groups in an organisation.
6. Name two essential characters of a leader.
7. Explain group dynamics.
8. Name two principles of labour division.
9. What are the main functions of organisational climate?
10. Why people resist changes?

**Section –B**

**(5X5=25)**

**Answer ALL questions:**

11. a) What are informed group? Explain the role  
**Or**  
b) Discuss the different approaches of organisational behaviour.
12. a) What is cognitive dissonance and how it is related to attitude?  
**Or**  
b) Explain the importance of promotion in job satisfaction.
13. a) Differentiate leaders and managers by function.  
**Or**  
b) Write a note on Group cohesiveness.
14. a) Explain the transactional theory of leadership with as illustration.  
**Or**  
b) What are the factors influence the decision making process?
15. a) Briefly write on diversity management.  
**Or**  
b) Examine the various factors influencing organisational effectiveness.

**Section –C**

**(3X10=30)**

**Answer any THREE questions:**

16. Write a detailed note on Hawthorne experiments.
17. Explain the theories of motivation.
18. What are the reasons for work stress? Explain the various measures adopted by the organisations to manage work stress.
19. Name the team building factors and its importance in art organization.
20. What are the human reactions to organisational change? Suggest ways to overcome the resistance of change.

**URUMU DHANALAKSHMI COLLEGE, KATTUR, TRICHY-19**  
**DEPARTMENT OF COMMERCE (UA)**  
**FUNDAMENTALS OF INFORMATION TECHNOLOGY**

**Marks: 45Marks**

**Time: 2 Hours**

**Section –A**

**Answer all the questions**

**(6X2=12)**

1. Define-Computer.
2. What is Operating system?
3. Define- Software.
4. What is Voucher?
5. What is Memory unit?
6. What is Sales Analysis?

**Section-B**

**Answer all the questions**

**(3X4=12)**

7. (A) Explain the two Auxiliary Storage devices. (or)  
(B) Explain the programming languages.
8. (A) Write short notes on Operating System. (or)  
(B) Explain the Types of Vouchers.
9. (A) Give the merits of Tally. (or)  
(B) How to Company Create in Tally?

**Section-C**

**Answer any three the questions**

**(3X7=21)**

10. Explain computer Architecture with a neat diagram.
  11. What is software? Explain the types of software?
  12. Explain the methods of data processing.
  13. What is transaction? Explain the types of transactions.
  14. Give the merits and demerits of Computer.
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**URUMU DHANALAKSHMI COLLEGE, KATTTUR, TRICHY -19**  
**DEPRATMENT OF COMMERCE (UA)**  
**FUNDAMENTALS OF INFORMATION TECHNOLOGY**

**Marks: 45Marks**

**Time: 2 Hours**

**Section –A**

**(6X2=12)**

**Answer all the questions**

1. Define- Computer.
2. What is Software?
3. What is database design?
4. What is Voucher entry?
5. Define- Sales.
6. Give any two short cut and usage keys.

**Section-B**

**(3X4=12)**

**Answer all the questions**

7. (A) Classify the computers bases on size & speed. (Or)  
(B) Explain the programming language.
8. (A) Explain the kinds of data processing. (Or)  
(B) Explain the term company.
9. (A) What do you mean by Sales Analysis? (Or)  
(B) Explain the characteristics of computer.

**Section-C**

**Answer any three the questions**

**(3X7=21)**

10. Explain Computer Architectures with a neat diagram.
11. Explain the types of software.
12. Explain the methods of Data Processing.
13. What is voucher? How to create voucher entries?
14. Give the merits & demerits of Accounting System in Computer.

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**URUMU DHANALAKSHMI COLLEGE, KATTTUR, TRICHY -19**  
**DEPRATMENT OF COMMERCE (UA)**  
**FUNDAMENTALS OF INFORMATION TECHNOLOGY**

**Marks: 45Marks**

**Time: 2 Hours**

**Section –A**

**(6X2=12)**

**Answer all the questions**

1. What is a Computer?
2. State any one function of main memory.
3. List optical storage devices.
4. What is a mouse?
5. Explain in two sentences about micro computer.
6. Explain Entity.

**Section-B**

**(3X4=12)**

**Answer all the questions**

7. (A) Write a short note on Central Processing Unit. (Or)  
(B) Write a short note on Arithmetic Logical Unit.
8. (A) Explain briefly Random access memory. (Or)  
(B) Explain briefly Read only memory.
9. (A) Explain 'Application software' briefly. (Or)  
(B) Explain 'Assembly language' briefly.

**Section-C**

**Answer any three the questions**

**(3X7=21)**

10. Explain digital computers and analog computers.
  11. Explain a typical computer system with a neat block diagram.
  12. Explain the various Output devices of a computer system.
  13. How to pose the entries in Tally with example explain?
  14. Discuss the latest trends in soft ware development.
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