the customer to action.

Subject: Business Communication-II
75 Marks

N.B.1. All the questions are compulsory

2. Figures to right indicate full marks

Q.I. A. Fill in the blanks (10 Sentence each with three options Any 8) 1. Public relation professionals often need to	8 Marks
8. The Right to information Act was passed in the year	
(2005 /2006/ 2007)	
9. A job interview is also known as a interview.	
(selection/selector/segregation)	• 1
10. Attending to complaints is known as (claims/adjustment/ reimbursement)	
Q.1. B. State whether the following statements are True or False	7 Marks
(10 Sentence each with three options Any 7)	
 I.In an interview, questioning is more important than listening. The objective of the meeting should be communicated well in advance. Public relations officers must stay away from the media. The time and duration of the meeting should be according to the convenor's containe. 	venience
5. The word conference is derived from the Latin word' confer'.	
6.The complainant should be thanked.	
7. Language in a report should be very simple.	
8. Offering a discount is a bad sales strategy.	

9. The introductory paragraph of the sales letter performs a very important function of inducing

10.RTI promotes transparency and accountability in the working of every public authority.

- Q.2. A. Define interview. Explain the role of an interviewer & interviewee. (8)
- Q.2. B. What is a Conference? Discuss the various ways to ensure the successful organisation of a conference. (7)

OR

- Q.2.C. Define Public Relations. List and explain any five methods of promoting External Public Relations in an organisation. (8)
- Q.2. D. Define Crisis Management? Explain its types. How can Public Relation Department help in managing crisis situation. (7)
- Q.3.A. Your cousin is getting married next month for which you require 50 traditional dresses. Write a letter of inquiry to ManMohan Dresses enquiring about price list & catalogue for purchase. (8)
- Q.3 B. Write a letter to Ola cabs complaining about the rash driving and rude behavior of the drivers.(7)

OR

- Q.3 C.Draft an investigative report on the staff turnover in German Travels. (8)
- Q.3D. Draft notice and agenda for the monthly board meeting of Anita Travels Pvt. Ltd, Mahalaxmi, Mumbai. (7)

Also Draft resolutions for the following:

- i) appointment of the Director ii) Resignation of a senior employee
- Q.4 A. Write a sales letter to sell home cooked food. (8)
- Q.4 B.You recently purchased a Samsung Galaxy 23 Ultra which was found to be defective as the touch panel was not functioning. Write a Letter to the appropriate Consumer Grievance Redressal Forum to get you a refund and a compensation of 50,000 for the mental trauma you suffered at the hands of the dealer. (7)

OR

- Q.4 C. You had applied for admission to the University of Mumbai and issuance of your marksheet. Write a letter under the RTI Act seeking reasons behind the denial of admission and delay in mark sheet.(8)
- Q.4 D. Q.4 D. Summarize the following passage giving it a suitable title. (7)

 The term 'soft skills' refers to a group of skills and personal qualities that present-day employers look for and value in their employees. Soft skills relate to excellent communication skills, both spoken and written, positive personality traits, social skills and personal attitudes. In this sense, soft skills complement hard skills, which have to do the technical requirements of a job. Hence, you may have the right professional qualifications, be academically brilliant and perhaps even have the required work experience, but you will be successful in an organisation only if you know, for example, how to work as part of a team or how to get along with both your senior and junior colleagues. In other words, soft skills are all about how you deal with

people. They are very important in the present-day professional context that requires constant interaction and communication. Thus, it is not surprising that very often, an interviewer talking to two different candidates with equally impressive CVs, decides in favour of the one who seems relaxed, open, friendly and well-adjusted. Of course, neat personal appearance and pleasing personality also makes a positive impression in such situations.

While soft skills are acquired early in life and depend to a great extent on the environment in which you were brought up, they can also be consciously learnt. The process could begin either by asking someone who knows you closely to decide whether you possess the soft skills concerned or through an honest self-appraisal. You can begin by looking at some of the soft skills recommended by behavioural training experts.

In short, soft skills are personality traits that determine a person's interaction with others and the ability to be successful at work. Soft skills complement a person's professional skills and affect his or her performance at work, relationships with colleagues and career prospects. Some important soft skills employers look for in the people they employ are attitude, adaptability, goal setting, motivation, time management, stress management, critical thinking and problem solving, team work and leadership.

Q. 5. Short Notes (out of 5 Any 3)

15 Marks

- 1. Steps to conduct appraisal interview
- 2. Ingredients of a group discussion
- 3. Types of Conferences
- 4. Activities of the Public Relation Department
- 5. Advantages of a meeting

NB: (1) All questions are compulsory and carry equal marks

Time: 2.5 hours

	2) Figures to the right indicate marks	75 Marks	
Q1) A	. Choose the correct option: (Any 8)	40	.0)
Ι.	NABARD was established in the year (a) 1982 b) 1956 c) 1955	0)	18)
2.	Hypothecation is the mortgage of property for securing (a) Movable b) Immovable c) Land and Building	loan.	
3.	Banking is essentially a business dealing with (a) Money b) Electronic c) Goods		
4.	Marine policy is also called as (a) Sea policy b) Floating policy c) Valued policy		
5.	Minimum period of fixed deposit is days. (a) 120 b) 30 c) 7		
6.	are also called as fixed deposits and are repayable after the expiry of specified term. (a) Term deposit b) Demand deposit c) Saving deposit		
7.	deals with financial impact of risk and uncertainty. a) Rider b) Risk manager c) Actuary		
8.	risk refers to risk affecting individual but not to a comma) Fundamental b) Dynamic c) Particular	nunity.	
9.	Causa Proxima meansa) Periodic cause b) Nearer cause c) Far-off cause		
10	The schedule banks are included in schedule a) April 2000 b) April 2001 c) April 2002		

Q1B. Match the following: (ANY 7)

Group A	Group B	
1) Current Deposits	a) Foreign Bank	
2) Indemnity	b) Demai share account	
3) Debit Cards	c) Risk management tool	
4) PoS	d) Not to allow profit	
5) Standard chartered Bank	e) Additional Risk	
6) De-mat	f) Life Insurance Act	
7) Rider	g) 1938	
8) 1956	h) ATM	
9) Risk Financing	i) Time Deposit	
10) Insurance Act	j) Point of sale	

Q2. A) What is a bank? What is the need for bank?	(08)
B) Explain in brief the main functions of banks.	(07)
OR	(07)
C) Distinguish between private and public sector banks.	(08)
D) Explain the reasons for regulation of banks.	(07)
	(07)
Q3. A) Explain the types of bank accounts.	(08)
B) Differentiate saving account and current account.	(07)
OR	
C) Explain the role and functions of RBI.	(80)
D) Define financial inclusion. Explain the scope of Financial inclusion	(07)
The state of the s	
Q4. A) What is risk? Explain different types of risk in business.	(08)
B) Explain the methods of handling the risk.	(07)
OR	, ,
C) What is Insurance? Explain the uses and benefits of Insurance	(08)
D) Explain in brief basic Principles of Insurance	(07)
	, ,
Q5. A) What is Marine Insurance? Explain the types of Marine policy	(08)
B) Differentiate between Life insurance and Fire insurance.	(07)
OR	,
Q5. C) Write Short Notes on: (ANY 3)	(15)
1. Current Account	
2. E-Banking.	
3. Plastic cards.	
4. Fire Insurance.	
5. Risk Management.	

Semester Examination	
Class / Semester: FY-BBI/2	Subject : Business Law.
N.B. 1.All the questions are compulsory	Time: 2 ½ hours
2. Figures to the right indicate full marks	75 Marks
Q.1 Answer the Following	(8)
a. Fill in the blanks (any 8)	
(3,,buyer ,movable ,19,vold,5,considration , uncrossed, const	iture,Apex ,valid]
1. Supreme court is also known as court.	(4)
2. A Negotiable Instrument are oftypes	
3means something in return.	
4. Caveat emptor means let the be beware.	
5. Right to free dom is given under which Article	
6. Cheque cran be crossed and	
7. Digital signature isin Indian system .	
8. the word constitution is derived fromterm.	
9.wr, its are oftypes	
1'J. goods means	
b. True or False (any 7)	(7)
1. Caveat Emptor means he should not be beware of product	
2. Custom is a source of making law.	
3. Apex court is high court .	
4. Voluntary transfer of possession from one person to anothe	r is called delivery.
5. A negotiable instrument is of 4 types.	
6. goods are movable property.	
7. minor cannot be agent .	
8. E-governance and digital signature are illegal in india.	
9. In agency, no consideration is necessary to create a agency.	

10.Quasi contract is not a valid contract.		
Q.2 Answer the Following:		
(A) Explain the concept of law and classify different type of law.	8	
(B) Define indian legal system and classification of courts in india		7
OR		
(A) Define the salient features of constitution of india 8		
(B) Different types of writs under constitution of india? 7		
Q.3 Answer the following:		
(A) Explain contract and essential of valid contract under contract act		
(B) explain in detail contract of bailment and duties of bailee.		7
OR		
(A) Explain the free consent under indian contract act 1872.		8
(B) distinguish between indemnity and guarantee.		7
Q.4 Answer the following:		
(A) Explain promissory note and its features in detail		8
(B) Explain bill of exchange and its features in detail .		7
OR		
(A)who is unpaid seller and rights of unpaid seller?		8
(B) explain the breach of contract and type of breach of contract 7		
Q.5 Answer the following:		
(A) rexplain the concept of E – governance in brief?		8
(f3) Explain the features of negotiable instruments in brief		7
OR		
Q.6 Shorts Notes :(Any 3)	15	
1.foreign instrument		
2. Hire purchase.		
3. writ of mandumus		
4.consideration Principle of natural justice		5.

Marks: 75 N.B. 1. All the questions are compulsory, 2. Figures to the right indicate full marks. 3. Suitable working notes will be the part of your answer. 0.1. A. Choose correct option from the following (Any 8) (08)1. The premium payable on redemption can be provided out of (a) General reserve (b) Capital redemption reserve (c) Debentures (d) Loan from bank 2. Capital redemption reserve can be utilised for (a) paying dividend (b) issue of bonus shares (c) set-off against losses (d) write off fictitious balance 3. Average profit is 19,167 and normal profit is ₹ 10,000. The super profit is_____ (a) 9,167 (b)29,167 (c) 19,167 (d)10,000 4. Net asset value is also called as (a) Asset backing value (a) Share Capital (c) Liquidation value (c) Current Liabilities 5. Yield value depends on (b) Paid up equity capital (a) Future maintainable profit (c) Normal rate of return (d) All of the above 6. The amount remaining unpaid to preference shareholders is included in Balance Sheet as. (a) Share Capital (c) Fixed Assets (b) Current Assets (d) Current Liabilities 7. Super profit is (a) excess of average profit over (c) average profit earned by similar normal profit companies (d) none of the above (b) extra profit earned 8. Securities premium may be used for (a) Payment of dividend (b) Issue of fully paid bonus shares (c) Issue of partly paid bonus shares (d) None of the above 9. Interest on sinking fund investment is credited to _____. (a) Sinking Fund account (b) Profit and loss account (c) Profit and Loss Appropriation (d) None of the above 10. Maximum buy-back in a year can be _____ (b) 20% (a) 10% (c) 25% (d) 30%

SYBBI/Subject Code: UBIFSII.3

Duration: 2.5 H₹

Subject: FA II

Q.1. E. State true or false for the following (Any 7)

(07)

- 1. The debentures can be redeemed at a discount.
- 2. Premium on redemption can be provided out of Profit & Loss Alc.
- 3. The shares must be cancelled and destroyed after buy-back.
- 4. Goodwill may be purchased or non-purchased.
- 5. Intrinsic value of also known as Net Assets Value.
- 6. Investments are non-trading assets.
- 7. Buy back must be as per RBI guidelines.
- 8. Preference shareholders have voting rights.
- 9. Capital Reserve is a divisible profit.
- 10. The debentures can be redeemed whenever company desires.

Q. 2 A. Ascertain the value of Goodwill of Progressive Co. Ltd. carrying on business as retail traders from the following information: (15)

Balance Sheet as on 31st December, 2013

Liabilities	₹	Assets	₹
Paid-up Capital 2,500 Shares of	-	Goodwill	25,000
100 each	2,50,000	Land & Buildings	1,10,000
Profit & Loss Account	56,650	Plant & Machinery	1,00,000
Bank Overdraft	58,350	Stock	1,50,000
Sundry Creditors	90,500	Debtors	90,000
Provision for taxation	19,500		
	4,75,000		4,75,000

The company commenced operations in 2009 with a paid-up capital of 2.50,000. The Profits earned before providing for taxation have been as follows:

Year	₹
2009	62,000
2010	64,000
2011	71,000
2012	78,000
2013	85,000

Income-tax may be taken at 50%.

Average Dividend paid by the company is at 12 1/2% which is taken as a reasonable return expected on capital invested in the business. Goodwill is to be calculated with reference to capitalization of Maintainable Profits Method.

OR

Q. 2 B. Ascertain the value of Goodwill of Progressive Co. Ltd. carrying on business as retail traders from the following information: (15)

Balance Sheet as on 31st December, 2019

Liabilities	₹	Assets	₹
10,000 Shares of 10 each fully	1,00,000	Land and Building	1,20,000
paid	50,000	Plant and Machinery	80,000
Profit and Loss A/c	50,000	Furniture and Fittings	15,000
Debentures	25,000	Stock	
Trade creditors	5,000	Book debts	20,000
Provision for taxation	20,000	Cash and bank	10,000
Proposed Dividend			5,000
	2,50,000		2,50,000

The net profits of the company after charging depreciation and taxes for the years ending 31st March were as follows:

- 2013-₹47,000;
- 2014 -₹ 49,000;
- 2015-₹50,000;
- 2016 ₹52,000 and
- 2017 ₹59,000
- On 31st March, 2017, assets were valued as under:
- Land and Building -₹1,80,000, Plant and Machinery -₹1,10,000, Furniture and Fittings -₹10,000.
- 12% return on investment can be considered fair for the business.

You are required to find value of goodwill by:

- (a) Five years purchase of super profits.
- (b) Capitalization of super profits.

Q.3.A. Following is the Balance Sheet of Kavya Ltd. (a non-listed company) as on 31-3-2012;

Liabilities	₹	Assets	₹	
Shares Capital:		Fixed Assets	10,20,000	
80,000 Equity Shares of ₹10 each	8,00,000	Bank Balance	6,20,000	
4,000 - Preference Shares	4,00,000			
Of ₹ 100 each	80,000			
Profit and Loss Account	1,60,000			
Debentures	2,00,000			
Creditors				
Total	15,40,000	Total	16,40,000	

The company wants to buy back 20% of its equity capital at 10% premium. Not having sufficient profits to buy back, the company issued 1,200 Preference Shares of ₹100 each at 10% premium payable as ₹20 on application and the balance on allotment. These shares were duly taken up and company purchased the equity shares immediately, sufficient profits were used to supplement the new issue.

Q.3.B. Following information is available from the books of a Company.

(25)

 1,20,000 equity shares of 10/- each
 1,20,000

 Security premium
 70,000

 General Reserves
 3,50,000

The company decided to buyback 25% of the equity share capital at 12/- per share. Pass journal entries without parration.

Q.4.A. Bharat Ltd. whose issued share capital on 31-12-2017, consisted of 12,000 8% redeemable preference shares equity shares of ₹100 each, ₹80 paid up, decided to redeem preference shares at a promium of ₹10 per share. The company's balance sheet as at 31-12-2017, showed a general reserve of ₹18,00,000 and a capital reserve of ₹1,70,000. The redemption was affected partly out of profits and partly out of the proceeds of new issue of 6,000 7.5% cumulative preference share of ₹100 each at a premium of ₹25 per share.

You are required to pass necessary journal entries.

(15)

OR

Q.4.B. Noida Toll Bridge Corporation Ltd. has outstanding 50.000,8% debentures of ₹ 100 each issued in 2005 due for redemption on 31ST of March 2015. It was decided to invest the required amount in investment earning 10% p.a. interest on April 30th,2014. How much amount of Debenture Redemption Reserve should be credited before the redemption of debentures begin.

Record necessary Journal entries regarding redemption of debentures. (15)

Q. 5 A. Explain different types of Debentures?

- (08) (07)
- Q.5. B. Distinguish between Redemption of Shares and Buy-back of Shares.

OR

Q.5.C. Write short notes on: (Any Three)

(15)

- a. Sources of Buy-back
- b. Bonus Shares
- c. Sinking Fund Method
- d. Yield Value Method of Shares Valuation
- e. Super-Profit Method of Valuation of Goodwill

FYBBI/II/ Subject Code:

Subject: Foundation Course-II

) All questions are compulsory and carry equal marks b) Figures to the right indicate marks	Time: 2.5 Hours 75 Marks
1. A.	Choose the correct option: (Any 8)	(08
J.	arises when goal directed behaviour is blocked. (a) Stress b) Frustration c) Anger	
2.	needs lie at the highest level of hierarchy of Masl (a) Esteem b) Self- Actualization c) Social	ow's Need Hierarchy Theory.
	helps to develop the power of concentration (a) Meditation b) Physical exercise c) Social support	
4.	The is a layer of gases surrounding our planet. a) Hydrosphere b) Atmosphere c) Biosphere	phere
5.	Human rights have application. a) Universal b) Limited c) Maximum	า
6.	As per the new industrial policy, 1991, licensing is required only a) Five b) Seven c) Six	in industries.
	Acid rain is one of the harmful effects of pollution a) Water b) Soil c) Air	
8.	Article of the constitution abolished the practice of una) 15 b) 16 c) 17	touchability.
9.	In the state of the number of farmer's suicide is the	highest.
	a) Maharashtra b) Orissa c) Bihar	
10.	. Win-Win is the outcome ofstrategy.	
	a) Smoothing b) Compromising c) Collaboration	ng
_	. State whether True or False: (Any 7)	(1)7)
	Atmosphere regulates the global temperature.	
2.	Meditation is an effective method of relieving stress.	
3.	Immigration means moving into a new country.	

OR	
 6. Lose-lose strategy eliminates the conflict in spite of the negative outcomes faced by both the p 7. Dereservation of public sector has resulted in efficiency in firms. 8. Maslow's theory is on Human Motivation. 9. The fundamental rights are absolute. 10. The share of employment in the agriculture sector has increased over the years. Q 2. A. Explain the concept of migration and its types and causes. (OR 	
 7. Dereservation of public sector has resulted in efficiency in firms. 8. Maslow's theory is on Human Motivation. 9. The fundamental rights are absolute. 10. The share of employment in the agriculture sector has increased over the years. Q 2. A. Explain the concept of migration and its types and causes. (OR 	
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Q 2. A. Explain the concept of migration and its types and causes. OR	
Q 2. A. Explain the concept of migration and its types and causes. OR	
Q 2. A. Explain the concept of migration and its types and causes. OR	
OR	
OK .	15)
() 2. B. Examine the impact of globalization on agrarian sector.	
(15)
Q 3. A. Explain the concept of human rights and explain its characteristics (15)
OR	
Q3. B. What are fundamental rights? Explain its significance.	15)
	- /
Q4. A. What is environmental degradation? What are its causes?	15)
() The state of t	13)
OR	
	1 ~ \
	15)
sustainable development.	
Q 5. A. Enumerate on strategies for coping with stress	15)
	,
OR	
Q5. B. Write Short Notes on: (Any 3)	15)
(1	15)
1. Impact of Environmental Degradation	
2. Role of IT in communication	
3. Types of Aggression.	
4. Water Pollution.	
5. Liberalisation	

External Exam

Class: FYBBI II MARKS:75

SUBJECT: ORG.BEHAVIOUR TIME:2.1/2

Q1 {1} MATCH THE FOLLOWING ANY {8} {8MK}

В

1.MASLOW A. Computer Technology

2.MEGREGOR B. Special Knowledge

3.GMTRIMSIC MOTIVATION C. Big Hidden Area

4.MULTIPLE INTRLLIGENCE D. Way Of Settle

5.V IRTUAL TEAMS E. Depersonalization

6.TECHNICAL SKILL F. Stressed

7.GNTEVIEWER G., Prof. Gardner

8.NEGOTIATIONS H. Genternal Motivation

9.BURN OUT I. Theory X

10.TYPE [A] PERSONALITY J. Need Hierarchy

[B] STATE THE FOLLOWING: ARE TRUE/FALSE ANY {7} {7MK}

- 1. OB In INTERDISIPLINARY IN NATURE
- 2. OB HAS A SYSTEM ORIENTATION
- 3. TOM HAS BURROWED IDEA'S FROM PHYSICS
- 4. THERE IS NO PROBLEM OF WORK IN LIFE BALANCE IN ORGANATION
- 5. ADVANCEMENT APPORTUNITY IS AN HYGINE FACTOR
- 6. GROUP SIZE INFLUENCE, BEHAVIOUR
- 7. ALL GROUP MEMBER'S PLAY A ROLE
- 8. A SPECIFIC GOAL IS A CLEARLY DEFINE GOAL
- 9. EFFECTIVE GOAL ARE MEASURABLE GOAL
- 10. STRESS WITHIN LIMIT IS BENEFICIAL

(A) STATE THE GOALS OF ORGANISATIONAL BEHAVIOUR?(B) WHAT IS A OB EXPLAIN THE DIFFERENT LEVEL OF PEOPLE BEHAVIOUR?	(08MK)
OR	(07 MK)
(C) EXPLAIN THE DIFFERENT SOURCES WHO HAVE	
CONTRIBUTED TO OB?	(08 MK)
(D) DEFINE OB & EXPLAIN THE FOUR MODELS IN BRIEF?	(07 MK)
Q3.	
(A)DEFINE MOTIVATION AND EXPLAIN HIE MODELOF	
MOTIVATION ?	(08 MK)
(B)STSTE THE IMPORTANCE PRAPERTIES OF GROUPS?	(07 MK)
OR	
(C) DEFINE OB AND EXPLAIN THE GOALS OF OB?	(08MK)
(D) EXPLAIN TO KNOW ABOUT HUMAN BEHAVIOUR?	(07MK)
Q4.	
(A) EXPLAIN THE MAJOR AREA OF THE INDIVIDUAL	
DEFFERENCE ?	(08MK)
(B) EXPLAIN THE GARDENER'S THEORY OF MUNTIPLE INTELLIGENCE?	(07MK)
OR	(**************************************
(C) WHAT IS GROUP EXPLAIN THE TYPE OF GROUP?	(08MK)
(D) EXPLAIN THE PRAPERTICL OF A GROUP?	(07MK)
05	
Q5.	
(A) DEFINE LEADERSHIP & EXPLAIN THE FEATURE &	(08MK)
FUNCTION'S? (B) DEFINE STRESS &EXPLAIN IT'S EFFECTS	(05MK)
OR	(0717111)
(C) WRITE SHORT NOTE (ANY 3)	(15MK)
1. TIME MANAGEMENT	•
2. ORGANISTATIONAL DEVELOPMENT	
3. TQM	
4. CAUSE OF CONFLICT'S	
5. FUNCTION OF ORG CULTURE	

EXTERNALS FYBBI / Semester = H / Subject Code: Subject	Date : Subject : Quantitative Methods - II		
N.B. 1. All the questions are compulsory 2. Figures to the right indicate full marks 3. Use of non – programmable calculators allowed 4. Use graphs wherever necessary	Time: 2.5 Hours [75 Marks]		
Q.1 (A) Fill in the blanks with the correct alternative: (any 1. If we reject H ₀ when H ₀ is actually true, then we are ma (No, Type II, Type I)			
 In the process of testing a statistician starts with a hypothesis. (Null, Supplementary, Alternative) 	othesis called		
 Graphical method can be used to solve a linear program of variables is (Four, Two, Three) 	nming problem when number		
 The conditions in a LPP of the type x₁, x₂ ≥ 0 are called (Non – negativity conditions, Negative conditions, Positive Conditions) 			
5. If A is a matrix of order $m \times n$, then it contains (n rows, m rows, mn rows)			
6. A matrix of order n, having all non-diagonal elements a (Diagonal matrix, Scalar matrix, Square matrix)	zero is called		
7. If $x : y = 2 : 3$ and $y : z = 4 : 3$, then $x : y : z$ is	<u>.</u>		
8. The triplicate ratio of 1:3 is (1:27, 1:9, 1:3)			
9. The total risk of return R is measured using (expected value, standard deviation, variance)	·		

10. Net Domestic Product (NDP) is ________(NNP - depreciation, GNP - depreciation, GDP - depreciation)

Match the column: (any 7)	
Α	В
1. Rejecting Ho when it is false	a. Transpose matrix
 In two tailed test, reject H₀ at 5% level of significance if 	b. No error
3. Full form of LPP is	c. 3:2
 A matrix obtained by interchanging rows and columns of given matrix 	d. Constraints
The conditions put on the variables in a linear programming problem are	e. 4:9
6. A square matrix with all elements zero	f. Z > 1.96
7. The inverse ratio of 2:3	g. Portfolio
8. Duplicate ratio of 2:3	h. Linear Programming Problem
A combination of a group of securities	i. High
10. If the securities within the portfolio have high degree of correlation, then the risk of the portfolio is	j. Null matrix

Q.2 A) Solve the following LPP graphically.

(8)

Maximize z = 5x + 3y

Subject to:

$$2x + 3y \le 12$$

$$3x + 9y \le 27$$

where, $x \ge 0 \& y \ge 0$

Q.2 B) Is it likely that a sample of size 300 whose mean is 12, is a random sample from large population with mean 12.8 and standard deviation 5.2?
Use 5% level of significance.

OR

Q.2 C) Use simplex method to solve:

(10)

(7)

Maximize z = 4x + 7y

Subject to:

$$x + y \le 9$$

$$3x + 2y \le 23$$

where,
$$x \ge 0 \& y \ge 0$$

Q.2 D) A company manufactures two products X and Y and each unit of product has to go through 3 machines A, B, C.

Machine A can be operated for a maximum of 3000 minutes, and it takes 10 minutes for 1 unit of products X and 5 minutes for 1 unit of product Y.

Machine B can be operated for a maximum of 6000 minutes and it takes 5 minutes for 1 unit of product X and 10 minutes for 1 unit of product Y.

Machine C can be operated for a maximum of 500 minutes and it takes 1 minute for 1 unit of product X and 1 minute for 1 unit of product Y.

Profit per unit of product X is ₹10 and that per unit of product Y is ₹15.

$$7x + 3y + z = 11$$

$$2x - y + 3z = 4$$

$$x + y + z = 3$$

Q.3 B) If
$$A = \begin{bmatrix} 1 & 2 & 3 \\ 3 & -2 & 1 \\ 4 & 2 & 1 \end{bmatrix}$$
, then find A^{-1} . (7)

$$2x + y - z = 0$$

$$x + y + z = 9$$

$$2x + 5y + 7z = 52$$

Q.3 D) If
$$A = \begin{bmatrix} 1 & 4 & 3 \\ 2 & -5 & 1 \end{bmatrix}$$
, $B = \begin{bmatrix} 1 & 3 & 1 \\ -1 & 0 & 2 \end{bmatrix}$ & $C = \begin{bmatrix} 2 & 3 & 5 \\ 4 & 1 & 2 \end{bmatrix}$. (7)
Prove that: $(2A + 3B) - 4C = 2A + (3B - 4C)$.

Q.4 A) The following data provides the likely returns of shares of 'Joy Ltd.' and ' Tom Ltd.' in different economic conditions. (3)

Economic	Probability	Returns on 'Joy	Returns on 'Tom
Conditions	(p)	Ltd.'	Ltd.'
		(R _J)	(R _T)
E ₁	0.4	121	110
E ₂	0.2	110	141
E ₃	0.1	125	120
E ₄	0.3	130	135

Calculate the expected returns. Also compare the total risks and check which company is a better option for investment? Why?

Q.4 B) Given below is the probability distribution of return of two stocks.

Find: (i) Expected return from X.

(ii) Expected return from Y.

(7)

(8)

- (iii) Total risk from X.
- (iv) Total risk from Y.

(v) Covariance of return from X and Y.

(v) covariant			
Economic	Probability	Returns of X in %	Returns of Y in %
Conditions	(p)	(R _X)	(R _Y)
E ₁	0.4	30	40
E ₂	0.5	25	30
E ₃	0.1	20	15

OR

Q.4 C) From the following information, calculate beta (β) of the security and comment on the result. (10)

Return on Security in % (Rs)	-3	5	10	6
Return on Market Portfolio in % (R _M)	-1	6	3	7

Q.4 D) The following table gives the return of two shares A & B under four states of economy with corresponding probabilities (p). Find and compare the expected return of both shares A and B.

(5)

States of Economy	Probability	Returns of Share A	Returns of Share B
	(p)	(R _A)	(R _B)
Depression	0.2	-5.2	-7.4
Recovery	0.3	-1.8	-3.2
Prosperity	0.4	2.7	4.3
Recession	0.1	6.4	8.4

Q.5 A) A, B, C, D and E are five numbers such that, A: B = 3: 4, B: C = 8: 11, C: D = 33: 40, D: E = 20: 33. Find the ratios (i) A: D (ii) B: E (iii) A: B: C (iv)A: B: C: D (v) A: B: C: D: E

Q.5 B) Monthly Salaries of Mr. Karan and Mr. Shukla are in the ratio 7:8 and their monthly expenditures are in the ratio 6:7. If both of them save ₹500 per month, find their monthly salaries. (7)

OR

Q.5 C) Write Short notes on: (Any 3 out of 5)

(15)

- a. What do you mean by variation? Explain direct and indirect variation with examples.
- b. Discuss different types of matrices.
- c. Explain Type I and Type II error in Testing of Hypothesis
- d. Explain different types of ratios.
- e. Discuss the terms Null Hypothesis and Alternative Hypothesis with examples.
