Code No. 1535A

FACULTY OF COMMERCE

M.Com. (E-Commerce) III – SEMESTER REGULAR EXAMINATIONS, DEC-2017

SECURITIES ANALYSIS AND PORTFOLIO MANAGEMENT

PAPER –V (a)

Time: 3 Hours] [Max. Marks: 70

Note: Answer all questions from Section – A and Section – B

Section – A (5x4=20)

Answer the following questions in not more than **ONE** page each:

1. Economic Investment.
2. Impulse Waves.
3. Exercise Price.
4. Security Market Line.
5. Risk Adjusted Returns.

Section – B (5x10=50)

Answer the following questions in not more than **FOUR** pages each:

6. a) Give an account of the reforms introduced by SEBI in primary and secondary market in India.

(OR)

b) What factors should an investor consider while making investment decisions?

7. a) What do you mean by security analysis? Describe the basic approaches to security analysis.

(OR)

b) Differentiate between:
i) Bar Chart and Condlestice chart
ii) Primary Trend and Secondary Trend.

8. a) Explain the basic valuation model used in investment management. How is if used for valuation on of bonds?

(OR)

b) A firm had paid dividend at Rs.2 per shares last year. The estimated growth of the dividends from the company is estimated to be 5%p.a., Determine the estimated market price of the equity share if the estimated growth rate of dividends (i) rises to 8% and (ii) falls to 3%. Also find out the present market price of the share, given that the required rate of return of the equity investors is 15.5%.

9. a) Describe the different phases in portfolio management.

(OR)

b) The following information is available from Mr.2 in respect of his portfolio:

Security	Weight (%)	Expected Returns (%)	SD (%)
A	50	20	24
B	50	12	16

Find out the correlation between the returns if the S.D. of the portfolio is 20% or 18%.

10. a) Describe the different situations where evaluation of performance of portfolios becomes necessary.

(OR)

b) Information regarding two mutual funds and a market index are given below:

Fund	Returns (%)	S.D. (%)	Beta
Gold	7	15	0.72
Platinum	16	35	1.33
Market Index	10	24	1.00

Assuming the risk-free return as 5%, calculate the differential returns for the two funds.

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Code No. 14&1535B

FACULTY OF COMMERCE

M.Com. (Gen/ECM) III – SEMESTER REGULAR EXAMINATIONS, DEC-2017

ACCOUNTING FOR SERVICE ORGANISATIONS

PAPER –V (b)

Time: 3 Hours] [Max. Marks: 70

Note: Answer all questions from Section – A and Section – B

Section – A (5x4=20)

Answer the following questions in not more than **ONE** page each:

1. Explain the accounting books maintained by accountants.
2. Explain the procedure of accounting for sales in hospital.
3. What do you mean by accrual in Government?
4. What are the features of farm accounting?
5. Explain the general balance sheet.

Section – B (5x10=50)

Answer the following questions in not more than **FOUR** pages each:

6. a) Elucidate the provisions of income tax act relating to lawyers and engineers.

(OR)

b) Dr. Vasudeva commenced practice as a dental surgeon, investing Rs.25,000 in equipment on 1st January 2014.

The receipts and payments Account for the year was as follows:

	Rs.		Rs.
To fees	60,0000	By Salaries to assistants	8,000
To Miscellaneous receipts	500	By Rent	4,800
To Equipment sold	2,000	By Journals	1,000
		By Purchase of drugs	5,000
		By Equipment purchased	4,000
		By Drawings	20,000
		By Library books	4,000
		By Conveyance	2,000
		By Balance: At bank	12,700
		In hand	1,000
	62,500		62,500

Rs.2,000 of the fees were still outstanding. Equipment sold and purchased was on 1st October, 2014, the cost of equipment sold being Rs.3,000. Depreciation of equipment is 20%. Salaries to assistants still payable is Rs.1000. 30% of conveyance is for domestic purpose. Stock of drugs on 31st December, 2014 is Rs.1500.

You are required to prepare the Receipts and Expenditure Account and the Balance Sheet relating to the year 2014.

7. a) Explain the procedure of receipts and payments accounts and income and expenditure accounts of a University in India.

(OR)

b) From the following particulars relating to Rama Krishna Mission Charitable Hospital, prepare Income and Expenditure Account for the year ended 31st December, 2012 and Balance Sheet as on that date:

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Receipts & Payments Account

For the year ended 31st December, 2012.

Receipts	Rs.	Payments	Rs.
To Cash in hand on 1st January, 2012.	7,130	By Medicines	30,590
To Subscriptions	47,996	By Doctor's honorarium	9,000
To Donations	14,500	By Salaries	27,500
To Interest on investments @ 7% for full year	7,000	By Petty expenses	461
To Proceeds from charity show	10,450	By Equipment	15,000
Inventories (stores & supplies)(1-4-11)		By Expenses on charity show	750
		By Cash in hand on 31st Dec, 2012.	3,775
	87,076		87,076

		On Jan, 2012.	On 31st Dec, 2012.
(i)	Subscription Due	240	280
(ii)	Subscription received in advance	64	100
(iii)	Stock of medicines	8,810	9,740
(iv)	Estimated value of Equipment	21,200	31,600
(v)	Buildings (Cost less depreciation)	40,000	38,000

8. a) Explain about the functions of comptroller and auditor general of India.

(OR)

b) State the compilation of Indian government accounts.

9. a) How would you maintain different books of accounts of farm?

(OR)

b) Form the following figures, prepare the Farm Accounts.

Stock	Opening Stock (Rs.)	Closing (Rs.)
Crops	7,500	9,000
Growing Crops	5,500	8,000
Seeds	4,000	5,000
Cattle	1,40,000	2,00,000
Cattle Food	19,000	10,000
Poultry	17,000	25,000
Poultry Food	2,000	4,000
Fertilizers	8,000	6,000
Purchases during the year:	**Rs.**	
Poultry	29,000	
Seeds	2,000	
Cattle	78,000	
Cattle Food	25,000	
Poultry Food	5,000	
Fertilizers	6,000	
Sales during the year:	**Rs.**	
Crops	41,000	
Milk	19,000	
Eggs	25,000	
Cattle	70,000	
Poultry	24,000	
Expenses during the year:		
Wages	45,000	
Depreciation	3,000	
Insurance	3,000	

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Code No. 1532

FACULTY OF COMMERCE

M.Com. (E-Commerce) III – SEMESTER REGULAR EXAMINATIONS, DEC-2017

_E_-COMMERCE AND _E_-BANKING

PAPER – II

Time: 3 Hours] [Max. Marks: 50

Note: Answer all questions from Section – A and Section – B

Section – A (5x4=20)

Answer the following questions in not more than **ONE** page each:

1. What is meant by E-Banking?
2. Write a short note about B2B.
3. What is SSL?
4. Fire Wall.
5. Electronic Cheques.

Section – B (5x6=30)

Answer the following questions in not more than **FOUR** pages each:

6. a) Critically examine the present status of E-Services in India.

(OR)

b) Explain various Electronic Payment System in detail.

7. a) Describe the benefits and drawbacks of EDI in detail.

(OR)

b) Explain the legal security and privacy concerns of Internet.

8. a) Describe various techniques of Encryption in detail.

(OR)

b) Explain the mechanism of Credit Card Security in Banks.

9. a) Describe various methods of Authentification.

(OR)

b) What are the factors to be considered while securing firewall? Explain.

10. a) Explain the process of designing electronic payment systems.

(OR)

b) Describe the automated clearing and settlement system prevailing in banks.

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Code No. 1532

FACULTY OF COMMERCE

M.Com. (E-Commerce) III – SEMESTER REGULAR EXAMINATIONS, JAN-2016

E-COMMERCE AND *E*-BANKING

PAPER – II

Time: 3 Hours] [Max. Marks: 50

Note: Answer all questions from Section – A and Section – B

Section – A (5x4=20)

Answer the following questions in not more than **ONE** page each:

1. Define e-business.
2. Define traditional EDI systems.
3. What is digital signature?
4. What is meant by information filtering?
5. What are Digital Tokens?

Section – B (5x6=30)

Answer the following questions in not more than **FOUR** pages each:

6. a) Define e-commerce and discuss its salient features.

(OR)

b) Explain the concept of e-banking. What are its advantages and limitations?

7. a) Explain various applications of B2C consumer oriented applications of e-commerce.

(OR)

b) What is EDI? Explain various business applications of EDI.

8. a) What is symmetric and asymmetric encryption technique?

(OR)

b) Explain about SSL and SET.

9. a) What is authentication? Explain different authentication methods.

(OR)

b) What are the factors to be considered in firewall designing?

10. a) What is a Smart card? What are the features of digital payment mechanism?

(OR)

b) Explain the automated clearing and settlement system mechanism in banks.

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Code No. 1532

FACULTY OF COMMERCE

M.Com. (E-Commerce) III – SEMESTER REGULAR EXAMINATIONS, DEC-2016

E-COMMERCE AND *E*-BANKING

PAPER – II

Time: 3 Hours] [Max. Marks: 50

Note: Answer all questions from Section – A and Section – B

Section – A

Answer the following questions in not more than **ONE** page each: (5x4=20)

1. B2B
2. Scriptural money
3. Visa 3D
4. Chips
5. SSL

Section – B

Answer the following questions in not more than **FOUR** pages each: (5x6=30)

6. a) Discuss about essentials of E-commerce requirements.

(OR)

b) Explain the term EPS and explain types of EPS in detail.

7. a) Explain the features EDI.

(OR)

b) Write a note on legal security and privacy.

8. a) Write a note on Cryptography.

(OR)

b) Explain the various credit card security measures in banks.

9. a) What are the types of Authentication methods? Explain in detail.

(OR)

b) Discuss about factors considered in securing the firewall.

10. a) Explain various automated clearing and settlement systems in banks.

(OR)

b) Discuss about the SET protocol in Electronic Payment.

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FACULTY OF COMMERCE

M.Com. (E-Commerce) III – SEMESTER REGULAR EXAMINATIONS, JAN-2019

_E_-COMMERCE AND _E_-BANKING

PAPER – II

Time: 3 Hours] [Max. Marks: 50

Note: Answer all questions from Section – A and Section – B

Section – A (5x4=20)

Answer the following questions in not more than **ONE** page each:

1. Mobile Commerce
2. Portal V/s website
3. Cipher Suites
4. Authentication
5. Dual Signatures

Section – B (5x6=30)

Answer the following questions in not more than **FOUR** pages each:

6. a) Define E-Commerce. Describe the essential requirements of E-Commerce.

(OR)

b) Describe the benefits and drawbacks of E-Commerce in detail.

7. a) What is EDI? Present the advantages and limitations of EDI.

(OR)

b) Write short notes about the following.

(i) B2C (ii) B2B (iii) G2C

8. a) What is encryption? Explain various techniques of encryption.

(OR)

b) What do you mean by credit card? Explain the security issues related to credit cards.

9. a) Describe various methods of Authentication in detail.

(OR)

b) What is Fire wall? Explain the components of Fire wall.

10. a) Explain various automated clearing and settlement services provided by banks.

(OR)

b) What are the risks associated with electronic payment systems? What do you suggest to mitigate the risks.

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Code No. 1534B

FACULTY OF COMMERCE

M.Com. (E-Commerce) III – SEMESTER REGULAR EXAMINATIONS, JAN-2016

ACCOUNTING FOR MANAGEMENT

PAPER – 04 (b)

Time: 3 Hours] [Max. Marks: 70

Note: Answer all questions from Section – A and Section – B

Section – A (5x4=20)

Answer the following questions in not more than **ONE** page each:

1. State the significance of Accounting theory.
2. What are the benefits from Accounting standards?
3. What is Balanced Score Card?
4. State the features of life cycle costing.
5. What is meant by corporate financial reporting?

Section – B (5x10=50)

Answer the following questions in not more than **FOUR** pages each:

6. a) Explain the evolution and role of accounting theory in the business world.

(OR)

b) Discuss the significant approaches for accounting theory.

7. a) Explain the functions of standards setting bodies in USA and UK.

(OR)

b) Discuss the elements in IAS – 1, 4, 7, 14 and 15.

8. a) What is Economic Value Added Approach? Explain the procedure for measuring EVA.

(OR)

b) Explain the relative merits and demerits of various responsibility centres in a complex organization.

9. a) Distinguish between Traditional Costing and Activity Based Costing system.

(OR)

b) Explain the problems and prospects of Management Audit system in corporate entities.

10. a) Discuss the recent trends in corporate financial reporting system.

(OR)

b) Explain the objectives of True Blood report and Stamp report.

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Code No. 1534B

FACULTY OF COMMERCE

M.Com. (E-Commerce) III – SEMESTER REGULAR EXAMINATIONS, DEC-2017

ACCOUNTING FOR MANAGEMENT

PAPER – 04 (b)

Time: 3 Hours] [Max. Marks: 70

Note: Answer all questions from Section – A and Section – B

Section – A (5x4=20)

Answer the following questions in not more than **ONE** page each:

1. Accounting Principles.
2. IAS-4.
3. Balanced Score Card.
4. Target Costing.
5. Characteristics of good reporting.

Section – B (5x10=50)

Answer the following questions in not more than **FOUR** pages each:

6. a) What are the approaches to formulation of Accounting Theory?

(OR)

b) What are the theoretical concepts of accounting?

7. a) What is the need for Accounting Standards?

(OR)

b) Explain the relationship between National and International Accounting Standards.

8. a) What are the objectives of balance score card? Explain the prospective of balance score card.

(OR)

b) Explain the procedure of preparation of responsibility accounting reports.

9. a) Explain the need for emergence of activity based costing.

(OR)

b) MNP suits is a ready-to-wear suit manufacturer. It has four customers, two wholesale-channel customers and two retail-channel customers.

MNP suits has developed the following activity-based costing system:

Activity	Cost driver	Rate in 2004
Order processing	Number of purchase orders	Rs.1,225 per order
Sales visits	Number of customer visits	Rs.7,150 per visit
Delivery-regular	Number of regular deliveries	Rs.1,500 per delivery
Delivery-rushed	Number of rushed deliveries	Rs.4,250 per delivery

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List selling price per suit is Rs.1,000 and average cost per suit is Rs.550. The CEO of MNP suits want to evaluate the profitability of each of the four customers in 2003 to explore opportunities for increasing profitability of his company in 2004. The following data are available for 2003:

Item	Whole Sale customers		Retail Customers	
	W	H	R	T
Total number of orders	44	62	212	250
Total number of sales visits	8	12	22	20
Regular deliveries	41	48	166	190
Rush deliveries	3	14	46	60
Average number of suits per order	400	200	30	25
Average selling price per suit	Rs.700	Rs.800	Rs.850	Rs.900

Required:

i) Calculate the customer-level operating income in 2003.

ii) What do you recommend to CEO of MNP suits to do to increase the company's operating income in 2004?

iii) Assume MNP suits' distribution channel costs are Rs.17,50,000 for its wholesale customers and Rs,10,50,000 for the retail customers. Also, assume that its Corporate sustaining costs are Rs.12,50,000. Prepare Income Statement of MNP suits for 2003.

10. a) What is Corporate reporting? Explain its objectives.

(OR)

b) Discuss the International Financial Reporting System (IFRS).

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Code No. 1534B

FACULTY OF COMMERCE

M.Com. (E-Commerce) III – SEMESTER REGULAR EXAMINATIONS, FEB-2019

ACCOUNTING FOR MANAGEMENT

PAPER – IV (b)

Time: 3 Hours] [Max. Marks: 70

Note: Answer all questions from Section – A and Section – B

Section – A (5x4=20)

Answer the following questions in not more than **ONE** page each:

1. Define book-keeping and accounting.
2. Write about IAS-3
3. What is responsibility accounting?
4. What is Activity Based Costing?
5. Write about stamp report.

Section – B (5x10=50)

Answer the following questions in not more than **FOUR** pages each:

6. a) Write about the Generally Accepted Accounting Principles.

(OR)

b) Differentiate between electric and events and predictive approach to accounting.

7. a) Elaborate the Indian Accounting Standards IAS-7, 8 and 14.

(OR)

b) Explain briefly about various standard setting bodies at international level.

8. a) Discuss the objectives and applicability of balanced score card.

(OR)

b) A Company has 20 cars in operation. The budget for the transport department based on 25,000 km of run for a month is Rs.87,500 out of which a sum of Rs.25,000 is fixed. During the last month, the total kilometers run by all the 20 cars were 22,400km and the costs incurred were Rs. 83,150. The cost of hiring a car would have been Rs. 4 per km.

Evaluate the performance of the transport department on the basis of

i) Cost Centre and ii) Profit Centre

9. a) Discuss the relative merits and demerits of Internal Audit and Management Audit.

(OR)

b) Discuss the role of Cost Accountant in Target Costing.

10. a) What are the objectives of a corporate reporting?

(OR)

b) Examine the themes of true blood report, corporate report and stamp report?

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Code No. 1534A

FACULTY OF COMMERCE

M.Com. (E-Commerce) III – SEMESTER REGULAR EXAMINATIONS, DEC-2017

FINANCIAL MARKETS AND SERVICES

PAPER – IV (a)

Time: 3 Hours] [Max. Marks: 70

Note: Answer all questions from Section – A and Section – B

Section – A (5x4=20)

Answer the following questions in not more than **ONE** page each:

1. Economic Development.
2. Listing of Companies.
3. UTI.
4. Hire Purchase.
5. Bills discounting.

Section – B (5x10=50)

Answer the following questions in not more than **FOUR** pages each:

6. a) Describe the structure of the Indian Financial System.

(OR)

b) Give an account of the recent developments and challenges in Indian Financial Market.

7. a) Differentiate between primary market and secondary market and which market is more suitable for developing countries.

(OR)

b) What is money market? Explain the instruments.

8. a) Do commercial banks help for economic development of the country. Explain.

(OR)

b) Define financial services and write its scope and growth.

9. a) What are Mutual Funds? Classify them. Explain the various factors to be considered before selecting a mutual fund.

(OR)

b) Define Lasting. Discuss the various types of leases. Distinguish between Financial lease and operating lease.

10. a) Explain the important aspects of the regulatory framework meant for merchant Banking in India.

(OR)

b) Elaborate the guidelines of the SEBI on merchant banking activities.

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Code No. 1534A

FACULTY OF COMMERCE

M.Com. (E-Commerce) III – SEMESTER REGULAR EXAMINATIONS, FEB-2019

FINANCIAL MARKETS AND SERVICES

PAPER – IV (a)

Time: 3 Hours] [Max. Marks: 70

Note: Answer all questions from Section – A and Section – B

Section – A (5x4=20)

Answer the following questions in not more than **ONE** page each:

1. Who are the players in Financial System?
2. Distinguish between primary and secondary markets.
3. State the functions of commercial Banks.
4. State the merits of lease financing.
5. What is credit rating?

Section – B (5x10=50)

Answer the following questions in not more than **FOUR** pages each:

6. a) Discuss the significance of Financial system in the development of a nations.

(OR)

b) Describe the recent changes in Indian Financial markets.

7. a) Examine the role of SEBI in regulating secondary market operations.

(OR)

b) Explain the structure and players in money market operations.

8. a) Discuss the role of commercial banks in promoting Financial Services to the society.

(OR)

b) Explain the problems and prospects of NBFCS.

9. a) Describe the salient features of various types of mutual funds.

(OR)

b) Explain the advantages and disadvantages of venture capital financing.

10. a) Discuss the functions of Merchant Bankers.

(OR)

b) Describe the problems in co-operate restructuring process.

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Code No. 1533

FACULTY OF COMMERCE

M.Com. (E-Commerce) III – SEMESTER REGULAR EXAMINATIONS, JAN-2016

JAVA PROGRAMMING

PAPER – III

Time: 3 Hours] [Max. Marks: 50

Note: Answer all questions from Section – A and Section – B

Section – A (5x4=20)

Answer the following questions in not more than **ONE** page each:

1. Data types.
2. Method Overloading.
3. Call by value.
4. Class path setting.
5. Controlling transactions.

Section – B (5x6=30)

Answer the following questions in not more than **FOUR** pages each:

6. a) Write a Java Program to demonstrate the while loop.

(OR)

b) Write a Java Program to demonstrate conditional statements.

7. a) Explain about overloading constructor.

(OR)

b) Define the concept of static abstract with suitable example.

8. a) What is inheritance? Explain the different types of inheritance with suitable examples.

(OR)

b) Explain what is applet. Give an example for applet.

9. a) Write a note on Interface in detail.

(OR)

b) What is Package? Write a program to demonstrate user defined package.

10. a) Explain about JDBC drives.

(OR)

b) Write a program to comment database for mapping.

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Code No. 1533

FACULTY OF COMMERCE

M.Com. (E-Commerce) III – SEMESTER REGULAR EXAMINATIONS, DEC-2017

JAVA PROGRAMMING

PAPER – III

Time: 3 Hours] [Max. Marks: 50

Note: Answer all questions from Section – A and Section – B

Section – A (5x4=20)

Answer the following questions in not more than **ONE** page each:

1. Modifiers
2. Loops
3. Boolean
4. HTML
5. JDBC

Section – B (5x6=30)

Answer the following questions in not more than **FOUR** pages each:

6. a) Briefly explain about fundamentals of Java Programming.

(OR)

b) What are the different types of operators used in Java?

7. a) What do you understand by Overloading methods? Explain with example?

(OR)

b) Explain different types of modifiers giving suitable examples.

8. a) Explain the concept of inheritance along with the types of inheritance.

(OR)

b) What is an applet? Explain applet skeleton?

9. a) Write short notes on:

i) Interface ii) Servlet environment

(OR)

b) Write short note on the following:

i) User defined package ii) Creating and using an interface.

10. a) What are JDBC Drivers? Explain controlling transactions.

(OR)

b) Explain in detail mapping database types.

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Code No. 1535A

FACULTY OF COMMERCE

M.Com. (E-Commerce) III – SEMESTER REGULAR EXAMINATIONS, FEB-2019

SECURITIES ANALYSIS AND PORTFOLIO MANAGEMENT

PAPER –V (a)

Time: 3 Hours] [Max. Marks: 70

Note: Answer all questions from Section – A and Section – B

Section – A (5x4=20)

Answer the following questions in not more than **ONE** page each:

1. What Speculation?
2. What is demand supply gap?
3. What is yield to call?
4. What is security market line?
5. What is constant ratio plan?

Section – B (5x10=50)

Answer the following questions in not more than **FOUR** pages each:

6. a) "Primary and Secondary Market are complementary to each other but their organizational set up is different? Explain.

(OR)

b) Discuss various features of National Stock Exchange.

7. a) Define Efficient Market Hypothesis. What are basic assumptions underlying this hypothesis?

(OR)

b) Explain the tools of technical analysis.

8. a) What is the intrinsic value of a cell option? How is it calculated?

(OR)

b) A Rs.100 per value bond bears a coupon rate of 16% and matures after five years. Interest is payable semi-annually. Compute the value of the bond if the required rate of return is 18%.

9. a) Describe in detail Capital Asset Pricing Model.

(OR)

b) Calculate the expected return and variance of a portfolio comprising two securities, assuming that the portfolio weights are 0.75 for security-1 and 0.25 for security-2. The expected return for security-1 sis 18% and its standard deviation is 12%, while the expected return and standard deviation for security-2 are 22% and 20% respectively. The correlation between the two securities is 0.60.

10. a) " Formula plans attempt to make portfolio revision a simple and almost mechanical exercise". Discuss.

(OR)

b) Given the following information:

Particulars	**Portfolios**			
	A	**B**	**C**	**D**
Beta	1.15	0.90	1.50	1.40
Return (%)	15.5	10.25	20.75	18.50
Standard Deviation (%)	25.0	18.5	28.30	24.50

Risk free rate of return=6%; Market return=12%. Calculate Sharpe, Treynor and Jensen ratios.

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FACULTY OF COMMERCE

M.Com. (E-Commerce) III – SEMESTER REGULAR EXAMINATIONS, JAN-2016

QUANTITATIVE TECHNIQUES FOR MANAGERIAL DECISIONS

PAPER – I

Time: 3 Hours] [Max. Marks: 70

Note: Answer all questions from Section – A and Section – B

Section – A (5x4=20)

Answer the following questions in not more than **ONE** page each:

1. What do you mean by Quantitative Techniques?
2. Differences between small and large samples.
3. What are the assumptions of F-test?
4. Distinguish between Deterministic Vs Probabilistic models of decisions.
5. What are the uses of statistical packages?

Section – B (5x10=50)

Answer the following questions in not more than **FOUR** pages each:

6. a) Explain in detail the classification of Quantitative techniques.

(OR)

b) A test in statistics was taken by 7 students. The teacher ranked his pupils according to their academic achievement. The order of achievement from high to low, together with family income for each pupil, is given as follows:

Rawat (Rs. 8,700), Bheem (Rs. 4,200), Tirupathi (Rs. 5,700), Devender (Rs. 8,200), Gopi (Rs.20,000), Chandrashekar (Rs.18,000), and Srinu (Rs.17,500). Compute the Rank correlation between academic achievement and family income.

7. a) In a survey of buying habits, 400 women shoppers are chosen at random in a super market located in a town in Nizamabad. Their average monthly food expenditure is Rs.250 with a standard deviation of Rs.40. For 400 women shoppers chosen at random in supermarket in a town in Medak, the average monthly food expenditure is Rs.220 with a standard deviation of Rs.55. Test at 1% level of significance whether the average food expenditure of the two populations of shoppers from which the samples were obtained are equal.

(OR)

b) To test the desirability of a certain modification in typists, desks, 9 typists were given two tests of as nearly as possible the same nature, one on the desk in use and the other on the new type. The following difference in the number of words typed per minute was recorded.

Typists:	A	B	C	D	E	F	G	H	I
Increase in number of words	2	4	0	3	-1	4	-3	2	5

Do the data indicate the modification in desk promotes speed in typing?

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8. a) In a certain factory, production can be accomplished by four different workers on five different types of machines. A simple study, in context of a two-way design without repeated values, is being made with two fold objectives of examining whether the four workers differ with respect to mean productivity and whether the mean productivity is the same for the five different machines. The researcher involved in this study reports while analyzing the gathered data as follows;

i) Sum of squares for variance between machines = 35.2

ii) Sum of squares for variance between workmen = 53.8

iii) Sum of squares of total variance = 174.2

Set up ANOVA table for the given information and draw the inference about variance at 5% level of significance.

(OR)

b) The following data refers to visual defects found during the inspection of the first mother boards manufactured by an computer components manufacturing company.

Item Number	1	2	3	4	5	6	7	8	9	10
Number of Defectives	4	3	2	3	4	4	4	1	3	2

Draw a suitable control chart and comment on the process.

9. a) A newspaper distributor assigns probabilities to the demand for a magazine as follows:

Copies Demanded:	1	2	3	4
Probability:	0.4	0.3	0.2	0.1

A copy of magazine sells for Rs 7 and costs Rs. 6. What can be the maximum possible Expected Monetary Value (EMV) if the distributor can return the unsold for Rs.5 each? Also find EVPI.

(OR)

b) For the following game, find optimal strategies of A and B and value of game using principle of dominance:

	Player B			
Player A	7	6	8	9
	-4	-3	9	10
	3	0	4	2
	10	5	-2	0

10. a) Explain the features of SPSS and write as to how it helps in analysis of Skewness, ANOVA and other computations.

(OR)

b) Explain how the process of statistics in research is simplified by using Excel.

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Code No. 1531

FACULTY OF COMMERCE

M.Com. (E-Commerce) III – SEMESTER REGULAR EXAMINATIONS, DEC-2016

QUANTITATIVE TECHNIQUES FOR MANAGERIAL DECISIONS

PAPER – I

Time: 3 Hours] [Max. Marks: 70

Note: Answer all questions from Section – A and Section – B

Section – A (5x4=20)

Answer the following questions in not more than **ONE** page each:

1. Meaning of Quantitative Techniques.
2. Estimation.
3. Assumptions of Chi Square test.
4. Conditions for Applying Game theory.
5. Advantages of software packages over manual methods of computation.

Section – B (5x10=50)

Answer the following questions in not more than **FOUR** pages each:

6. a) Explain the role of quantitative techniques in management decision making.

(OR)

b) In the estimation of regression equations of two variables X and Y the following results were obtained: $\Sigma X=900$, $\Sigma Y=700$, $n = 10$; $\Sigma X^2 = 6360$, $\Sigma Y^2=2860$ $\Sigma XY=3900$, where x and y are deviations from respective means. Obtain the two regression equations.

7. a) Explain the steps in formulation and testing hypothesis in detail.

(OR)

b) In a hospital 480 female and 520 male babies were born in a week. Do these figures confirm the hypothesis that males and females are born in equal number? Conduct a test for number of successes.

8. a) Following are the responses to the question "How many hours do you study before a major mathematics test".

6 5 1 2 3 5 7 5 3 7 4 7

Use the sign test to test the hypothesis at the 0.05 level of significance that the median number of hours a student studies before a mathematics test is 3.

(OR)

b) An inspection of 10 samples of size 400 each from 10 lots revealed the following number of defective units:

Lot Number	1	2	3	4	5	6	7	8	9	10
Number of Defectives	17	15	14	26	9	4	19	12	9	15

Draw a the 'np' chart and comment on the process.

P.T.O.

9. a) A management is faced with the problem of choosing one of the three products for manufacturing. The potential demand for each product may turn out to be good, fair or poor. The probabilities for each type of demand were estimated as follows;

Demand → / Product ↓	Good	Fair	Poor
A	0.75	0.15	0.10
B	0.60	0.30	0.10
C	0.50	0.30	0.20

The estimated profit or loss (in Rs) under the three states of demand in respect of each product may be taken as:

A	35,000	15,000	5,000
B	50,000	20,000	3,000
C	60,000	30,000	20,000

Prepare the expected value table and advise the management about the choice of the product.

(OR)

b) Consider the payoff matrix of player A and solve.

Player B

$$\text{Player A} \quad \begin{array}{c} \\ 1 \\ 2 \end{array} \begin{array}{c} \begin{array}{cccccc} 1 & 2 & 3 & 4 & 5 & 6 \end{array} \\ \begin{pmatrix} 6 & 3 & 7 & -4 & 6 & 8 \\ 7 & -11 & 8 & 4 & 7 & 9 \end{pmatrix} \end{array}$$

10. a) How do you perform ANOVA Two-Way analysis with imaginary figures using Excel?

(OR)

b) Explain the various features of SPSS helpful for research in social sciences.

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FACULTY OF COMMERCE

M.Com. (E-Commerce) III – SEMESTER REGULAR EXAMINATIONS, DEC-2017

QUANTITATIVE TECHNIQUES FOR MANAGERIAL DECISIONS

PAPER – I

Time: 3 Hours] [Max. Marks: 70

Note: Answer all questions from Section – A and Section – B

Section – A (5x4=20)

Answer the following questions in not more than **ONE** page each:

1. Regression Analysis.
2. Type I and Type II errors.
3. R-Chart.
4. Maximin.
5. SPSS

Section – B (5x10=50)

Answer the following questions in not more than **FOUR** pages each:

6. a) What do you mean by Quantitative Techniques? Explain its classification.

(OR)

b) Calculate the rank correlation coefficient for the following data.

X:	68	64	75	50	64	80	75	40	55	64
Y:	62	58	68	45	81	60	68	48	50	70

7. a) In a sample of 1000 people in Telangana, 540 are rice eaters and the rest are wheat eaters can we assume that both rice and wheat are equally popular in the state at 1% level of significance?

(OR)

b) What is Hypothesis? Explain the hypothesis testing procedure in detail.

8. a) The following figures show the distribution of digits in numbers chosen at random form a telephone directory.

Digits	0	1	2	3	4	5	6	7	8	9	Total
Frequency	1026	1107	997	966	1075	933	1107	972	964	853	1000

Test whether the digits may be taken to occur equally frequently in the directory.

(OR)

b) What do you mean by Statistical Quality Control? Explain the importance of SQC.

9. a) Following is the payoff matrix for player X.

Player Y

Player X	I	II	III	IV	V
I	2	4	3	8	4
II	5	6	3	7	8
III	6	7	9	8	7
IV	4	2	8	4	3

Using dominance property, obtain the optimal strategies for both the players and determines for both the players and determine the value of the game.

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(OR)

b) Given is the following payoff matrix.

		Course of Action		
State of Nature	Probability	Don't Expand	Expand 200 Units	Expand 400 Units
High Demand	0.4	2500	3500	5000
Medium Demand	0.4	2500	3500	2500
Low Demand	0.2	2500	1500	1000

What should be the decision if we use

i) EMV Criterion

ii) The Minimax Criterion

iii) The Maximax Criterion

iv) Maximax regret Criterion.

10. a) Explain how SPSS is useful in research.

(OR)

b) Explain how analysis of variance can be done by using MS-Excel with imaginary figures.

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Code No. 1531

FACULTY OF COMMERCE

M.Com. (E-Commerce) III – SEMESTER REGULAR EXAMINATIONS, JAN 2019

QUANTITATIVE TECHNIQUES FOR MANAGERIAL DECISIONS

PAPER – I

Time: 3 Hours] [Max. Marks: 70

Note: Answer all questions from Section – A and Section – B

Section – A (5x4=20)

Answer the following questions in not more than **ONE** page each:

1. What is Probable Error?
2. Explain Type I & Type II error.
3. Define Statistical quality Control.
4. Elements of Decision Theory
5. Features of MS-Excel package.

Section – B (5x10=50)

Answer the following questions in not more than **FOUR** pages each:

6. a) Explain the role and classification of quantitative techniques in management decision making.

(OR)

b) From the following data obtain the two regression equations.

X	6	2	10	4	8
Y	9	11	5	8	7

7. a) What are the steps involved in formulation and testing hypothesis in detail.

(OR)

b) A whole seller in peaches claims that only 4% of the peaches supplied by him are defective. A random sample of 600 peaches contained 36 defective peaches. Test the claim of the wholesaler. Use test for proportion of successes.

8. a) A certain drug is claimed to be effective in curing cold. In an experiment on 500 persons with cold half of them were given the drug and half of them were given the sugar pills. The patient reactions to the treatment are recorded in the following table.

Medicine	Helped	Harmed	No effect	Total
Drug	150	30	70	250
Sugar Pills	130	40	80	250
Total	280	70	150	500

On the basis of the data can it be concluded that there is a significant difference between in the effect of drug and sugar pills?

(OR)

b) A Tea company appoints Four Salesman A, B,C and D and observes their sales in Three seasons Summer, Winter and Monsoon. The figures (in lakhs) are given in the following table.

P.T.O.

Seasons	Salesmen				Total
	A	B	C	D	
Summer	36	36	21	35	128
Winter	28	29	31	32	120
Monsoon	26	28	29	29	112
Total	90	93	81	96	360

a) Do the Salesmen significantly differ in performance?

b) Is there significant different between the seasons?

9. a) Estimated sales of proposed types of perfumes are as under.

Types of Perfumes	Estimated levels of sales (units)		
	20,000	10,000	5,000
A	25	15	10
B	40	20	5
C	60	25	3

State the optimal action and specify the value leading to its selection if decision is to be made under

i) Maxi-Max ii) Maxi-Min iii) Mini-Max

iv) Harwicz Criteria (α=0.7) v) Lap lace criterion.

(OR)

b) Solve the following sequence game using dominance property.

$$\begin{array}{ccc} & & \text{Company A} \\ & & \begin{array}{cccc} \text{I} & \text{II} & \text{III} & \text{IV} \end{array} \\ \text{Company B} & \begin{array}{c} A \\ B \\ C \\ D \end{array} & \begin{pmatrix} 14 & 4 & 8 & 18 \\ 8 & 3 & 2 & 12 \\ 8 & 7 & -6 & 16 \\ 6 & 5 & 12 & 10 \end{pmatrix} \end{array}$$

10. a) Explain the procedure how to perform Correlation and regression analysis by using MS-Excel.

(OR)

b) Explain the various features of SPSS helpful for research in social sciences.

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