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M. Com. (E-Commerce) (Semester - I) Examination - 2012

PERSPECTIVES OF COMMERCIAL AND BUSINESS GROWTH

Time : 3 Hours]

[Max. Marks : 70

Instructions :

- (1) *All questions are compulsory.*
- (2) *Figures to the right indicate full marks.*

Q.1) “Objective of any Business in Profit-making only.” Do you agree with the statement ? Justify your answer. [14]

OR

Q.1) Define the term ‘Globalisation’. Discuss the essential conditions for Globalisation. [14]

Q.2) What do you mean by Business Environment ? Explain in detail the External Factors of Business Environment. [14]

OR

Q.2) Write a detailed note on the Weaknesses of New Agricultural Strategy in connection with the Green Revolution. [14]

Q.3) What do you mean by Small Scale Industry ? Narrate the problems faced by Small Scale Industry. [14]

OR

Q.3) Distinguish between : **[14]**

- (a) Merger and Acquisition
- (b) Partnership and Joint Venture

Q.4) Define the term 'Multi-National Corporation.' State and explain its merits and demerits. **[14]**

OR

Q.4) Take a brief review of major areas of the Economic Reforms introduced after 1991. **[14]**

Q.5) Write short notes : (**Any Two**) **[14]**

- (a) Advantages of Mergers
 - (b) Limitations of Sole Proprietorship
 - (c) Problems and Issues in Scams
 - (d) Need of Entrepreneurs
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मराठी रूपांतर

वेळ : 3 तास]

[एकूण गुण : 70

सूचना :

- (1) सर्व प्रश्न सोडविणे आवश्यक आहे.
- (2) उजवीकडील अंक पूर्ण गुण दर्शवितात.

प्र.1) “कोणत्याही व्यवसायाचे उद्दिष्ट फक्त नफा मिळविणे एवढेच असते.” ह्या विधानाशी तुम्ही सहमत आहात काय ? तुमच्या उत्तराचे समर्थन करा. [14]

किंवा

प्र.1) ‘जागतिकीकरण’ संकल्पनेची व्याख्या द्या. जागतिकीकरणासाठी आवश्यक शर्ती कोणत्या यावर चर्चा करा. [14]

प्र.2) व्यावसायिक पर्यावरण म्हणजे काय ? व्यावसायिक पर्यावरणाचे बहिर्गत विस्ताराने स्पष्ट करा. [14]

किंवा

प्र.2) हरित क्रांतीच्या संदर्भात नवीन कृषीसंबंधी डावपेचांच्या दुर्बलता यावर सविस्तर टीप लिहा. [14]

प्र.3) लघु उद्योग म्हणजे काय ? लघु उद्योगाला सामोरे जावे लागणाऱ्या समस्या सांगा. [14]

किंवा

प्र.3) फरक स्पष्ट करा : [14]

- (अ) विलीनीकरण आणि संपादन
- (ब) भागीदारी आणि संयुक्त प्रकल्प

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P.T.O.

प्र.4) 'बहुराष्ट्रीय कंपनी' संकल्पनाची व्याख्या द्या. त्याचे फायदे व मर्यादा सांगून स्पष्ट करा. [14]

किंवा

प्र.4) १९९१ नंतर अमलात आणलेल्या आर्थिक सुधारणातील प्रमुख क्षेत्रांचा आढावा घ्या. [14]

प्र.5) थोडक्यात टिपा लिहा : (कोणत्याही दोन) [14]

- (अ) विलिनीकरणाचे फायदे
 - (ब) एकल व्यापाराच्या मर्यादा
 - (क) घोटाळ्यातील समस्या आणि मुद्दे
 - (ड) उद्योजकांची गरज
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M.Com. (E-Commerce) (Semester - I) Examination - 2012

STATISTICAL METHODS AND ANALYSIS

Time : 3 Hours]

[Max. Marks : 70

Instructions :

- (1) *All questions are compulsory.*
- (2) *Figures to the right indicate full marks.*
- (3) *Use of statistical tables and calculator is allowed.*
- (4) *Symbols and abbreviations have their usual meanings.*

Q.1) Attempt any five of the following :

[10]

- (a) Write any two advantages of Simulation.
- (b) State additive model of Time Series.
- (c) Explain Concept of Partial Correlation.
- (d) State any two applications of chi square (χ^2) test.
- (e) If X is a Normal Variate with Mean 30 and SD 5, define corresponding standard normal variate.
- (f) If $X \rightarrow N(3, 1)$, $Y \rightarrow N(2, 2^2)$, and they are independent, state distribution of $X + Y$.
- (g) If $r_{12} = 0.6$, $r_{13} = 0.7$, $r_{23} = 0.65$, find $r_{1.23}$.
- (h) If $r_{12} = 0.7$, $r_{13} = r_{23} = 0.5$, find $r_{13.2}$.

Q.2) Attempt **any two** of the following :

[20]

- (a) (i) Explain different components of Time Series.
(ii) Following data relates to literacy status of Rural and Urban Area :

Area	Literates	Illiterates	Total
Rural	620	380	1,000
Urban	550	450	1,000
Total	1,170	830	2,000

Does literacy depends upon the area ? (Use 5% l.o.s.)

- (b) (i) Using Graphical Method estimate trend value for the years 2004 and 2009 for the following data on profit :

Year	2001	2003	2005	2006	2007	2008	2010
Profit	6	8	10	15	22	25	30

- (ii) A random sample of 27 pairs observations from a normal population gives a correlation of 0.72. Is it likely that the variables in the population are uncorrelated ?
(Use 5% l.o.s., Given $t_{25} = 2.060$, $t_{26} = 2.056$, $t_{27} = 2.052$)

- (c) Define the terms :

- (i) Null Hypothesis and Alternate Hypothesis
(ii) Critical Region
(iii) Type I and Type II Error
(iv) p-value
(v) Level of Significance

Q.3) Attempt **any two** of the following :

[20]

- (a) (i) Define Normal Distribution and state its important properties.
(ii) A stenographer claims that she can take dictation at the rate of 120 words per minute on an average. In 100 trials, she demonstrated an average rate of 116 words with SD 15 words. Can we accept her claim at 5% level of significance ?

- (b) (i) Find 4-yearly centered moving average for the following data on sales :

Year	2000	01	02	03	04	05	06	07	08	09	10	11
Sales	68	62	61	63	65	58	66	61	68	63	63	67

- (ii) Fit a straight line trend to the following time series by the Least Square Method :

Year	2000	2002	2004	2006	2008
Production	18	21	23	27	16

- (c) If X is a Normal Variate with Mean 30 and SD 5, find :

- (i) $P(26 \leq X \leq 40)$
(ii) $P(X \geq 45)$
(iii) $P(X \leq 25)$
(iv) $\text{Var}(2X)$
(v) $\text{Var}(3X - 5)$

Q.4) Attempt **any two** of the following :

[20]

- (a) Given the following information find equation of plane of regression of X_1 on X_2 and X_3 :

Variable	Mean	Standard Deviation	Correlation Coefficient
X_1	100.3	26.7507	$r_{12} = 0.8915$
X_2	79.4	36.9011	$r_{13} = 0.8633$
X_3	74.1	11.3634	$r_{23} = 0.8633$

Also estimate X_1 when $X_2 = 80$, $X_3 = 75$.

- (b) An IQ test was administered to 5 persons before and after they were trained. The result are given below :

Candidates	A	B	C	D	E
IQ Before Training	110	120	123	132	125
IQ After Training	120	118	125	136	121

Test whether there is change in IQ before and after the training programme. (take $\alpha = 0.05$)

- (c) The Director of Finance for a Farm Co-operative is concerned about the yields per acre she can expect from this year's crop. The probability distribution of yields for the current weather conditions is given below :

Yield per Acre (in kg.)	120	140	160	180
Probability	0.18	0.26	0.44	0.12

She would like to see a simulation of the yields she might expect 10 years for weather conditions similar to those she is now experiencing. Simulate the average yield per acre she might expect using the following random numbers :

20, 72, 34, 54, 30, 22, 48, 74, 76, 02.

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M. Com. (E-commerce) (Semester - I) Examination - 2012

ACCOUNTING FOR MANAGEMENT

Time : 3 Hours]

[Max. Marks : 70

Instructions :

All questions are compulsory and carry equal marks.

Q.1) Define the term 'Management Accounting'. Explain its role in the success of any Large Scale Organisation.

OR

Q.1) What is Analysis and Interpretation of Financial Statements ? Explain the various methods of such Analysis.

Q.2) The following are the Balance Sheets of ECOM Limited, Pune, prepared as on 31st March, 2010 and 31st March, 2011 :

Liabilities	31-03-10	31-03-11	Assets	31-03-10	31-03-11
Share Capital	10,00,000	12,00,000	Plant and Machinery	5,60,000	6,00,000
General Reserve	2,30,000	2,50,000	Land and Building	8,00,000	7,80,000
Profit and Loss A/c	1,70,000	1,96,000	Furniture	2,00,000	2,30,000
Mortgaged Loan	1,50,000	–	Sundry Debtors	1,73,000	1,80,000
14% Debentures	3,50,000	2,50,000	Bills Receivables	40,000	60,000
Sundry Creditors	1,63,000	1,58,000	Stock	2,07,000	1,58,000
Bills Payables	83,000	73,000	Cash and Bank	1,80,000	1,62,000
Provision for Tax	54,000	73,000	Preliminary Exp.	40,000	30,000
Total	22,00,000	22,00,000	Total	22,00,000	22,00,000

You are required to prepare the Fund Flow Statement with necessary working notes after considering the following information :

- (1) Dividend was distributed on the shares @ 10%.
- (2) Plant and Machinery and Furniture was depreciated by 10% and Land and Building was depreciated by 2.5%.
- (3) The 15% Debentures are redeemed by purchasing in the open market at Rs. 94 per debenture.
- (4) During the year Rs. 40,000 are paid by Way of Taxes.
- (5) During the year a Machine Costing Rs. 60,000 having depreciated up to 70% and valued at Rs. 30,000 was exchanged for the new machine. The Balance Payment of the new machine was made in cash.
- (6) Shares are issued at 5% discount which was written off through the General Reserve Account.

Q.3) From the different ratios given below complete the Balance Sheet with as many details as possible :

- | | |
|--|---------------|
| (1) Sales to Total Assets | 3 |
| (2) Sales to Fixed Assets | 5 |
| (3) Current Assets are 2/3rd of the Fixed Assets | |
| (4) Inventory Turnover Ratio | 20 |
| (5) Debtors Turnover Ratio | 15 |
| (6) Total Assets to Net Worth | 4 |
| (7) Debt Equity Ratio | 1 |
| (8) Sales during the year | Rs. 60,00,000 |
| (9) Gross Profit Ratio | 25% |

OR

Q.3) The following particulars in respect of Product EX and DX are obtained from the Cost Records of Margicost Limited, Pune :

Particulars	Product 'EX' (Rs.)	Product 'DX' (Rs.)
Selling Price	150	200
Material Cost@ Rs. 15 per unit	60	45
Labour Cost@ Rs. 10 per hour	30	50
Variable Overheads	20	55
Total Fixed Cost is Rs. 25,000.		

You are required to advise the Management as to which product is better in the following different situations :

- (1) If the total sales in units is the key factor.
- (2) If the total sales in value is the key factor.
- (3) If the raw material is in short supply.
- (4) If the availability of the labour hours is restricted.
- (5) If the raw material available is 2000 kg and maximum possible sale of each product is only 500 units then what should be the most beneficial sales mix.

Q.4) Mr. EMCOM has provided you the following estimates related to the period from January, 2012 to May, 2012 :

Months	Sales	Purchases	Wages	Factory Exp.	Other Exp.
November, 11	4,50,000	2,80,000	40,000	30,000	21,000
December, 11	5,00,000	3,00,000	50,000	24,000	24,000
January	5,60,000	3,50,000	60,000	33,000	27,000
February	5,00,000	3,20,000	50,000	27,000	30,000
March	4,60,000	2,60,000	40,000	36,000	24,000
April	4,20,000	2,30,000	30,000	18,000	21,000
May	5,00,000	3,50,000	40,000	24,000	18,000

Additional Information :

- (1) 25% of the sales are on cash basis. 40% of the credit sales are recovered in the next month while the remaining two months after.
- (2) 20% of the purchases are made by making an advance payment of one month, 10% of the purchases are on cash basis while the remaining purchases are made on the credit period of one month.
- (3) Wages are paid on every 7th day of the next month.
- (4) Factory and Office Overheads are fixed to the extent 80% and 60% respectively which are paid in the same month.
- (5) Variable Overheads are paid one month in arrear.

- (6) Advance Income Tax Rs. 45,000 is to be deposited in the month of March.
- (7) Interest on 15,000, 14% Convertible Debentures of Rs. 10 each, issued 2 years back at 20% premium, is due on 1st April and 1st October every year.
- (8) Balance as on 1st January, 2010 - Rs. 1,00,000.
- You are required to prepare Cash Budget of Mr. EMCOM for the period from 1st January, 2012 to 30th April, 2012.

OR

Q.4) What do you mean by Budget and Budgetary Control ? Explain various types of Budgets.

Q.5) Write notes on **any two** of the following :

- (a) Tools and Techniques of Management Accounting
- (b) Distinction between Cash Flow Statement and Fund Flow Statement
- (c) Application of Marginal Costing in Managerial Decision-making

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M. Com. (E-Commerce) (Semester - I) Examination - 2012

**ORGANISATIONAL DEVELOPMENT AND
CHANGE MANAGEMENT**

Time : 3 Hours]

[Max. Marks : 80

Instructions :

- (1) *All questions are compulsory.*
- (2) *All questions carry equal marks.*

Q.1) Explain the term Organisational Effectiveness ? What are the criteria for Judging Organisational Effectiveness.

OR

Q.1) What do you mean by the term Organisational Change and Organisational Development ? Explain the difference between the two.

Q.2) What are the different types of Cultures that may exist in the Organisation ? What are the methods to Change Organisational Culture ?

OR

Q.2) Define the term Organisational Culture. What are the important features of Organisational Culture ?

Q.3) Explain the Process of Training ? Highlight the important of Training. Why do Organisations need Training ?

OR

Q.3) What are the different types of Training ? Clear the Concept of Training and Learning.

Q.4) Explain the term Organisational Development. Explain the need, importance and advantages of Organisational Development.

OR

Q.4) Is there a necessity to develop the Organisation ? If yes, justify your answer. Explain the Effectiveness of Organisational Development.

Q.5) Write short notes : (**Any Two**)

- (a) Change Agent and his functions
 - (b) Merits of On-the-Job-Training
 - (c) Importance of Learning
 - (d) Need and Importance of Management Development
-

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Total No. of Questions : 4]

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[4270]-185

M. Com. (E-Commerce) (Semester - I) Examination - 2012

COMPUTER APPLICATION IN BUSINESS

Time : 3 Hours]

[Max. Marks : 70

Instructions :

- (1) *All questions are compulsory.*
 - (2) *Figures to the right indicate full marks.*
-
-

Q.1) Explain in brief the following terms :

[10]

- (a) Computer Network
- (b) DBMS
- (c) Operating System
- (d) www
- (e) Programming Languages

Q.2) Solve **any two** :

[20]

- (a) What is CPU ? How the CPU works ?
- (b) What is Word Processor ? How does Word Processor differs from an Editor ?
- (c) What is an Electronic Spreadsheet ? State any five features of Spreadsheet Software Package.

Q.3) Solve any two :

[20]

- (a) What is Batch File ? Explain briefly the steps involved to create a Batch File.
- (b) Define the following terms :
 - (1) Data
 - (2) Information
 - (3) Table
 - (4) Record
 - (5) Field
- (c) Why Businesses use Computer Networks ? Explain.

Q.4) Solve any two :

[20]

- (a) Define Operating System. State and explain any five features of Ms-Windows.
- (b) "Presentation Graphics Software enable you to create a series of slides that can be used to support business discussion." Comment.
- (c) Explain briefly the steps involved in Developing Database Application.

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Total No. of Questions : 9]

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[4270]-186

M. Com. (E-Commerce) (Semester - I) Examination - 2012

E-COMMERCE TECHNOLOGY

Time : 3 Hours]

[Max. Marks : 70

Instructions :

- (1) *Question No. 1 is compulsory.*
- (2) *All questions carry **equal** marks.*
- (3) *Figures to the right indicate full marks.*

Q.1) What is E-Commerce ? Explain advantages and disadvantages of E-Commerce in detail. [14]

Q.2) What are the advantages and disadvantages of the Internet ? Also explain the role of Internet in B2B Application. [14]

OR

Q.3) What is www ? Explain different types of Network. [14]

Q.4) What is Computer Virus ? Explain how it spreads and any two techniques used to protect computer from virus ? [14]

OR

Q.5) Explain PROS and CONS of On-line Shopping in detail. [14]

Q.6) Explain different strategies used for developing E-Commerce Web Sites. [14]

OR

Q.7) Explain different reasons for building own Websites. Also explain benefits of Websites. **[14]**

Q.8) What is EDI ? Explain the concept and limitations of EDI System. **[14]**

OR

Q.9) What is mean by Electronic Payment System ? Explain any four Electronic Payment System in detail. **[14]**

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Total No. of Questions : 4]

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M. Com. (E-Commerce) (Semester - III) Examination - 2012

BUSINESS MODELS FOR E-COMMERCE

Time : 3 Hours]

[Max. Marks : 70

Instructions :

- (1) *All questions are compulsory.*
- (2) *Figures to the right indicate full marks.*

Q.1) Explain in brief the following terms : (Any Five) [10]

- (a) Electronic Markets
- (b) Business Strategy
- (c) Purchasing On-line
- (d) After Sales Service
- (e) Internet Banking
- (f) Encryption

Q.2) Solve any two : [20]

- (a) Discuss in detail Strategic Implications of I.T.
- (b) What do you understand by Virtual Auctions ? Explain.
- (c) Explain in detail On-line Payments.

Q.3) Solve any two : [20]

- (a) Discuss in detail Credit Transaction Trade Cycle.
- (b) Why Security Measures are important in E-Commerce ?
- (c) What is the Inter-organisational Transaction ?

Q.4) Solve any two :

[20]

- (a) State the advantages and disadvantages of Consumer E-commerce.
 - (b) Explain in detail Electronic Newspapers.
 - (c) Discuss the future of Electronic Market.
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M. Com. (E-Commerce) (Semester - III) Examination - 2012

DATABASE MANAGEMENT SYSTEM

Time : 3 Hours]

[Max. Marks : 70

Instructions :

- (1) *All questions are compulsory.*
- (2) *Figure to the right indicate full marks.*

Q.1) Attempt any four of the following : [20]

- (a) What is Data Model ? Describe its categories.
- (b) List and explain Several DML Commands.
- (c) Write a note on Aggregation.
- (d) What is Normalisation ? Describe its normal form.
- (e) What is Trigger ? Describe 'Before Trigger' with syntax.

Q.2) Attempt any four of the following : [20]

- (a) What is Transaction ? Describe its ACID Properties.
- (b) Explain Concept 'Authorisation'.
- (c) Describe the Role of DBA.
- (d) What is Deadlock ? Describe its prevention techniques.
- (e) Write a note on 'Generalisation'.

Q.3) A company has several employees. Atleast one employee is assigned to a project, but an employee may be on vacation and not assigned to any projects. [08]

- (a) Identify all entities
- (b) Identify all relations
- (c) E-R Diagram

Q.4) (A) Consider following entities and relationship : **[08]**

Student (Roll_no, Name, Marks, Address)

Course (C_no, Cname, Fees)

Student and Course are related with M-1 relationship.

Create a RDB in 3NF and solve following SQL queries :

- (a) Insert a row in student table.
- (b) List the courses having fees < 30,000.
- (c) List the student details enrolled for 'M.Com. (E-Com)' Course.
- (d) Display course details for student 'Amit Verma'.

(B) Define **any two** with example : **[04]**

- (a) Candidate Key
- (b) Composite Attribute
- (c) Entity

Q.5) Attempt **any two** of the following : **[10]**

- (a) Define Lock. Explain different types of Lock.
- (b) What is Schedule ? Explain different types of Schedule with example.
- (c) The following is the list of representing the sequence of events in an interleaved execution of set transactions T_1, T_2, T_3, T_4 assuming 2-phase locking protocol :

Time	Transaction	Code
t_1	T_1	Lock (A, X)
t_2	T_2	Lock (B, X)
t_3	T_3	Lock (C, X)
t_4	T_4	Lock (A, S)
t_5	T_1	Lock (C, S)
t_6	T_2	Lock (D, S)
t_7	T_3	Lock (D, X)
t_8	T_4	Lock (B, S)

Construct a wait - for graph according to above request. Is there deadlock at any instance ? Justify.

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M. Com. (E-Commerce) (Semester - III) Examination - 2012

E-BANKING AND FINANCIAL SERVICES

Time : 3 Hours]

[Max. Marks : 70

Instructions :

- (1) Solve *any five* questions.
- (2) All questions carry *equal* marks.

-
-
- Q.1)** Define Bank. Explain the working of Indian Banking Network with suitable example. [14]
- Q.2)** Discuss various Services offered by Indian Banks to its Customers. [14]
- Q.3)** State and explain Concept of Electronic Banking. Give your views in favour of Electronic Banking. [14]
- Q.4)** Illustrate with example the role of Information Technology in the working of Effective Banking in India. [14]
- Q.5)** What are the Security Challenges in E-banking Services across the World ? [14]
- Q.6)** Explain the silent features of Indian Information Technology Act, 2000. [14]

Q.7) Review the development of Indian Banking Industry since the introduction of Internet Banking. **[14]**

Q.8) Explain the Procedure of Computer System Audit with the guidelines of RBI Applicable to System Audit. **[14]**

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M. Com. (E-Commerce) (Semester - III) Examination - 2012

MANAGEMENT CONTROL SYSTEM

Time : 3 Hours]

[Max. Marks : 70

Instructions :

- (1) *Question No. 1 is compulsory.*
- (2) *Figures to the right indicate full marks.*

Q.1) Explain in brief the following terms : (Any Five)

[2x5=10]

- (a) D.S.S.
- (b) CPM
- (c) Decision-making
- (d) MIS
- (e) Control
- (f) Inventory
- (g) Production Control

Q.2) Attempt any two

[10x2=20]

- (a) Explain Relationship of Planning and Control.
- (b) Explain the different Operation Research Techniques in details.
- (c) What are the success factors of Project ?

Q.3) Attempt any two

[10x2=20]

- (a) Explain the Structure of a System.
- (b) Compare MIS and DSS.
- (c) What is mean by Simulation ? State its advantages and disadvantages.

Q.4) Attempt any two :

[10x2=20]

- (a) Explain various steps in Decision-making Process.
 - (b) What is Management Control System ? Describe the purpose of MCS.
 - (c) What is Inventory Control ? Explain its techniques.
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[4270]-385

M. Com. (E-Commerce) (Semester - III) Examination - 2012

NETIQUETTES AND CYBER SECURITY

Time : 3 Hours]

[Max. Marks : 70

Instructions :

- (1) *All questions are compulsory.*
- (2) *Figures to the right indicate full marks.*
- (3) *Give illustrations wherever necessary.*

Q.1) Explain in briefly the following terms : (Any Five) [10]

- (a) Netiquette
- (b) FINGER
- (c) Intranet
- (d) Newsgroup
- (e) Message
- (f) Telnet
- (g) Electronic Journal

Q.2) Solve any two : [20]

- (a) Explain briefly the following terms :
 - (i) Knowbot
 - (ii) Commercial Database
- (b) "Computer Networks are essential for modern businesses for many reasons." Comment.
- (c) What is an E-mail ? List and describe the five functions combine in the E-mail Software Program.

Q.3) Solve any two : [20]

- (a) Write a short note on Internet Vulnerabilities.
- (b) “Usenet provides a forum for interested users on the Internet.”
Comment.
- (c) Explain briefly the following :
 - (i) Common Telnet Ports
 - (ii) Cleveland Freenet

Q.4) Solve any two : [20]

- (a) Explain in briefly the following terms :
 - (i) Tone of Voice
 - (ii) Recent News
 - (b) What factors have affected the spread of the Computer Network around the world ?
 - (c) “Telnet allows users to be on one computer while doing work on another.” Elaborate the statement.
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Seat No.	
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Total No. of Questions : 4]

[Total No. of Printed Pages : 2

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M. Com. (E-Commerce) (Semester - III) Examination - 2012

M-COMMERCE TECHNOLOGY AND WAP ARCHITECTURE

Time : 3 Hours]

[Max. Marks : 70

Instructions :

- (1) *All questions are compulsory.*
- (2) *Neat diagrams must be drawn wherever necessary.*

Q.1) Explain in brief the following terms : **[10]**

- (a) GPS
- (b) WAP Component
- (C) M-Commerce
- (d) Mobile Network
- (e) Bluetooth Security

Q.2) Solve the following : **(Any Two)** **[20]**

- (a) Explain Location Management in Heterogenous Wireless Services.
- (b) Explain Logical Link Control and Adaptation in Bluetooth.
- (c) Explain various Group-oriented Mobile Commerce Services.

Q.3) Solve the following : **(Any Two)** **[20]**

- (a) Explain Concept of Security in Wireless Network.
- (b) Explain Concept of Push/Pull Services in Location-based M-Commerce Services.
- (c) Explain layer of the Atmosphere in GPS.

Q.4) Write short notes : (**Any Four**)

[20]

- (a) Mobile Financial Services
 - (b) Multi-layer Framework
 - (c) www Model
 - (d) Wireless Service Provider
 - (e) Role of Middleware
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