Goa Vidyaprasarak Mandal's
GOPAL GOVIND POY RAITURCAR COLLEGE OF COMMERCE AND ECONOMICS, PONDA-GOA

B.COM. (SEMESTER- IV) SUPPLEMENTARY EXAMINATION, MAY/JUNE 2014
STATISTICAL TECHNIQUES

Duration: 2 Hours   Marks : 80

INSTRUCTION:
  All questions are compulsory.

Q 1.   a) Explain coefficient of correlation using scatter diagram.   (3)

    b) Given the following data, estimate the yield of wheat when the rainfall is 15.5 cms.

	Mean(₹)	S.D. (₹)
Yield of wheat (kg.per unit) area	10.7	8.1
Annual rainfall (cms)	20.5	5.0
Correlation coefficient r	0.52	
                                                                                                           (7)

    c) For a bivariate data,
      $N = 10, \ \sum x = 20, \ \ \sum y = 40, \ \sum xy = 75, \ \sum x^2 = 58, \ \ \sum y^2 = 192$
      Calculate coefficient of correlation. Comment on the value of r.   (6)

OR

Q 1 x) Write short note on Regression equations.   (3)

    y) For a bivariate data, means of X and Y are 60 and 65 , variances are 6 and 9 respectively, and coefficient between them is 0.8 .Write the regression equation of Y on X
        Also obtain the best value of Y when X = 50.   (7)

    z) The age of husbuands and wifes in seven couples were as follows.

Age of husband :	45	44	50	53	56	30	48
Age of wife :	42	40	41	42	56	30	43

      Find Pearson's coefficient of correlation between the age of husband and wife.   (6)

Q 2 a) Define probability of an event   (3)

    b) A biased coin is tossed thrice. The probability distribution of X: number of heads is represented by
          P(x) = 1/32 when x = 0
               = 4/32 when x = 1
               = 27/32 when x = 2, 3
               = 0 otherwise
          Find the probability that i) no head occurs
                                  ii) exactly one tail occurs
                                  iii) one or more heads occur.   (6)

c) The regression lines are 4y-15x+530=0 and 20x-3y-975=0. Find mean of x , mean of y and r.

(7)

OR

Q 2. x) Define the terms: 1) Exhaustive events
2) Mutually exclusive events

(3)

y) An automobile insurance company has found from the past experience that the chance of payingoff on a policy during a year is just o.1%. Five hundred new policies are issued last month. What is the chance that during the next year there will be
(i) no claim (ii) exactly one claim, (iii) at least one claim
from amongst one of these 500 clients? (Given: $e^{-5} = 0.0067$, $e^{-05} = 0.6065$).

(6)

z) If food products A,B,… were ranked by two committees as follows:

Committee I:	F	A	G	B	D	C	J	E	I	H
Committee II:	A	B	G	D	C	E	F	H	J	I

Find the coefficient of rank correlation.

(7)

Q. 3.a) Define the terms Event and Sample space.

(3)

b) A card is drawn at random from a well shuffled pack of 52 cards. Find the probability that the card drawn is a spade or a king.

(6)

c) The mean weight of 50 students is 45 kg with a standard deviation of 15 kg. Assuming distribution of weight to be normal, find
i) the number of students with weight between 30kg and 60kg,
ii) the probability of students with weight more than 60kg.
(Area under the standard normal curve between t = 0 to t = 1 is 0.3413)

(7)

OR

Q.3. x) State three properties of Poisson distribution.

(3)

y) 70 % of workers in a certain factory are members of the union. If 5 workers are selected from this factory, what is the probability that i) exactly 4 are union members
ii) atleast 4 are union members.

(6)

z) The height of group of 1000 students is normally distributed with mean 165 and standard deviation of 5 cms. How many students have height of 170 cms?
(Area under the standard normal curve between t = 0 to t = 1 is 0.3413)

(7)

Q.4.a) Write short note Stratified sampling.

(3)

b) A andom sample of 100 balls selected from a large consigned of tennis balls gave 20% bad balls. Find 99% confidence interval for the percentage of bad balls in the consignment.

(6)

c) A automatic can-filling machine on an average, fills 180 ml of milk with a standard deviation of 2 ml. Find the probability that the average volume of milk filled in 100 cans from a lot is i) less than 179.9 ml ii) more than 180.1 ml. (7)
(Area under standard normal curve between t = 0 to t = 0.5 is 0.1915)

OR

Q. 4.x) State different types of sampling methods. (3)

y) 20% of a large consignment of apples are found to be bad. Find the probability that at least 26% apples are bad in a sample of size 400 drawn from it. (6)
(Given: Area under SNC between t = 0 to t = 3 is 0.4987)

z) A survey of 36 retired people revealed the mean age at which their income was maximum to be 47 years with a standard deviation of 7.2 years. Find 99% confidence interval for the earnings of people who survive till they retire. (7)

Q.5. a) Explain the terms i) Type I error (3)
ii) Level of significance.

b) The height of 10 students selected at random, had a mean height of 158 cms and variance of 39 cms. Assuming level of significance of 5%, test the claim that the students of the population are on the average of height less than 162.5 cms. (6)

c) The following are the sample means and ranges for 10 samples, each of size 5. (7)

Sample	1	2	3	4	5	6	7	8	9	10
Mean	12.2	13.1	13.8	12.7	13.5	13.2	14.14	14.9	12.1	13.9
Range	2.1	3.1	3.9	2.1	1.9	3.2	2.8	2.5	2.6	2.5

Calculate the control limits for the mean chart and the range chart.
(Given: A2= 0.577, D3=0, D4= 2.115 for sample size 5).

OR

Q 5. x) Write short note on advantages of quality control. (3)

y) A sample of 400 items is drawn from a population of standard deviation 10. If the sample mean is 62.15, find 95% confidence limits for the population. (6)

z) A random sample of 400 male students gave average weight of 55 kg. Can we say that the sample comes from a population with mean 58 kg with variance of 9 kg? (7)

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GOA VIDYAPRASARAK MANDAL'S
GOPAL GOVIND POY RAITURCAR COLLEGE OF COMMERCE AND ECONOMICS, PONDA-GOA

B.COM.(SEMESTER-IV) SUPPLEMENTARY EXAMINATION
MAY/JUNE 2014
BUSINESS LAW

Marks: 80   Duration: 2 hours
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INSTRUCTIONS:-
1. All the questions are compulsory.
2. Figures to the right indicate marks.

Q.1) Answer **ANY FOUR** of the following in about 100 words:-   (16)

    a) Distinguish between Trademark and Design.
    b) Explain Broadcasting Organization Rights.
    c) Which designs are prohibited from registration?
    d) Which inventions are not patentable?
    e) Write a short note on Compulsory licensing.

Q.2) Answer **ANY FOUR** of the following in about 100 words:-   (20)

    a) Who is an "Authorised person" under FEMA, 1999? State the duties of authorized person.
    b) What is meant by "Realisation" and "Repatriation"? Examine the cases where the foreign exchange need not be repatriated to India by a resident in India according to FEMA, 1999.
    c) Explain following concepts under FEMA, 1999.
      i) Person
      ii) Person resident in India
    d) Explain the concept of Capital Account Transaction under FEMA, 1999.
    e) Who is an Adjudicating authority under FEMA, 1999? What are the penalties that can be imposed in contraventions of FEMA, 1999?

Q.3) Answer **ANY ONE** of the following questions in about 400 words:-   (10)

    a) Explain the offence of Dishonour of Cheque under The Negotiable Instruments Act, 1881. State the penalties that are prescribed under the act.
    b) Distinguish between a Promissory Note and a Bill of Exchange.

Q.4) Answer **ANY ONE** of the following questions in about 400 words:- (12)

a) What are the rights conferred by registration of the design and which designs are prohibited from registration under The Designs Act, 2000?

b) What is meant by Assignment of copyright? What are the various modes Assignment of copyright.

Q. 5) Answer **ANY ONE** of the following questions in about 400 words:- (12)

a) What is meant by Deceptively similar mark? Explain the grounds on which trademark can be refused.

b) Explain the term Invention. State which are not inventions under the Patents Act, 1970.

Q.6) Answer **ANY ONE** of the following questions in about 400 words:- (10)

a) Explain the concept of crossing of Cheques with the help of diagrams.

b) Explain the term Endorsement in detail. What are various kinds of endorsements?

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Goa Vidyaprasarak Mandal 's
GOPAL GOVIND POY RAITURCAR COLLEGE OF COMMERCE
AND ECONOMICS, PONDA -GOA

B.COM. (SEMESTER- IV) SUPPLEMENTARY EXAMINATION
MAY/JUNE 2014
BUSINESS ECONOMICS

Duration: 2 hours   Marks: 80

Instructions to the candidates :
    i.   All questions are compulsory.
    ii. Figures to the right indicate marks.

Q1 . Write a note on **any four** of the following: (16)
    i.   Gifts and grants, special assessment
    ii.   Merits of direct tax. (any 4)
    iii. Sources of Revenue for the state Government.
    iv   Cannons of public expenditure (any two)
    v.   Major heads of expenditure of the central Govt.
    VI. Post 1991 reforms in public expenditure (any 4).

Q2.   Write a note on **any four** of the following: (16)
    i.   State Govt. budget.
    Ii   Any two methods of debt redemption.
    iii   Budget and fiscal Deficit.
    Iv   Impact of deficit budget
    v.   FRBM act
    vi   The causes of rise in state Govt. public debt.

Q3 i What are the defects of Indian tax system .   (12)
                          OR
    ii. Write a note on indirect tax .   (12)

Q4 i.Write a note on the different Classifications of public expenditure. (12)
     (plan & non plan ,developmental & non developmental, Revenue &
     capital, etc)
                            OR
    ii. What are the causes of rise in public expenditure?   (12)

Q5 i. What is public debt? What are the types of public debt? (12)

OR

II. What is the Role of public debt in economic development? (12)

Q6. Write a note on central Government budget. (12)

OR

What are the major goals of fiscal policy in developing countries? (12)

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B.COM. (SEMESTER- IV) SUPPLEMENTARY EXAMINATION
MAY/JUNE 2014
BUSINESS ENVIRONMENT

Duration: 2 hours   Marks: 80

INSTRUCTIONS TO THE CANDIDATES:
    (1) All questions are compulsory
    (2) Figures to the right indicate marks.

Q.1 (a) State the objectives of the competition act, 2002.   (8)
       (b) Outline the major provisions of FEMA, 1999.   (8)
                                OR
Q.1 (x) Comment upon the industrial policy reforms in India.   (8)
       (y) Mention the instruments of the credit control exercised by the Reserve
       Bank of India.   (8)

Q.2. Write short notes, **ANY TWO**.   (8x2)
       (a) Objectives of fiscal policy in India.
       (b) Significance of foreign trade.
       (c) Importance of ISO-9000 certification to industry.
       (d) Importance of right to information Act.

Q.3. Highlight upon **ANY TWO** :-   (8x2)
       (a) Obstacles to globalisation in India.
       (b) Significance of globalisation.
       (c) Strategies used by the companies to enter foreign market.
       (d) Merits and demerits of globalisation.

Q. 4(a) State the merits of multinational corporations.   (8)
       (b) Outline the factors affecting foreign investment.   (8)
                                OR
Q.4(x) State the functions of the world trade organisation.   (8)
       (y) State the drawbacks of multinational corporations.   (8)

Q.5. Write short notes, **ANY TWO** :-   (8x2)
       (a) Impact of migration on Goan society & economy.
       (b) Comment upon environmental movements in Goa.
       (c) Socio economic performance of Goa.
       (d) Industrial incentives in Goa in Goa.

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Q. 3. From the following balance sheets of Benzoplast Ltd., prepare a Cash flow statement(indirect method), for the year ended 31st March 2014.   (20)

Liabilities	31.3.2013	31.3.2014	Assets	31.3.2013	31.3.2014
Equity share capital	5,00,000	8,00,000	Goodwill	1,00,000	50,000
Profit & loss A/c	2,00,000	3,50,000	Land &		
15% Debentures	1,00,000	---	Building	4,00,000	2,50,000
9% Bank loan	---	50,000	Plant &		
Provision for taxation	50,000	65,000	Machinery	3,00,000	2,70,000
Trade creditors	50,000	55,000	Investments	Nil	2,70,000
Bills payable	50,000	20,000	Debtors	40,000	80,000
			Stock	60,000	50,000
			Cash in hand	40,000	90,000
			Cash at bank	10,000	2,80,000
	9,50,000	**13,40,000**		**9,50,000**	**13,40,000**

₹ 50,000 dividend was proposed and paid during the year 2013-14.

Q. 4. From the following balance sheet of Cadila Pvt. Ltd. for the year ended 31st March 2014, prepare a common-size statement for the purpose of analysis.   (20)

Liabilities	₹	Assets	₹
Equity Share capital	8,00,000	Goodwill	98,000
9% Preference share capital	2,50,000	Plant and	
8% debentures	1,00,000	machinery(net)	7,50,000
Capital Reserve	75,000	Investments	3,90,000
Retained earnings	1,78,000	Prepaid expenses	30,000
Proposed dividend	25,000	Book debts	55,800
Creditors for goods	82,000	Accounts receivables	22,200
Unclaimed dividend	6,000	Cash at bank	1,68,000
		Preliminary expenses	2,000
	15,16,000		**15,16,000**

Q. 5. A) From the following balance sheets of GCL Ltd., prepare a statement showing changes in the working capital for the year ended 31st March 2014.   (10)

liabilities	31.3.2013	31.3.2014	Assets	31.3.2013	31.3.2014.
Equity share capital	3,60,000	4,44,000	Land	48,000	96,000
Profit and loss A/c	1,51,800	1,63,800	Building and		
Sundry creditors	2,40,000	2,34,000	equipment	3,60,000	5,76,000
Outstanding expenses	24,000	48,000	Cash at bank	60,000	72,000
Income tax payable	12,000	13,200	Debtors	1,68,000	1,86,000
Accumulated			Inventories	2,64,000	96,000
depreciation on			Advances	7,800	9,000
Bldg. and equipments	120,000	1,32,000			
	9,07,800	**10,35,000**		**9,07,800**	**10,35,000**

B) Prepare a comparative income statement from the following information : (10)

Particulars	2013 ₹	2014 ₹
Gross sales	60,100	67,900
Sales returns	2,600	1,900
Cost of goods sold	40,000	42,000
Operating expenses	6,000	4,500
Income tax	9,750	5,750

Q. 6. Write short notes on : (20)

a) A statement showing sources and applications of funds.

b) Return on Investment (ROI).

c) Current and non-current items.

d) Schedule VI of the Companies Act.

e) Balance sheet ratios in financial statement analysis.

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Goa Vidyaprasarak Mandal's
Gopal Govind Poy Raiturcar College Commerce and Economics
Ponda - Goa
B. COM.(SEMESTER-IV) SUPPLEMENTARY
EXAMINATION, JUNE 2014
ADVERTISING
Duration: 2 Hours   Marks: 80

INSTRUCTIONS:
   1) All questions are compulsory.
   2) Figures to the right indicate full marks.

Q I. Answer any **four** of the following.   (16)

   a) Write a short note on Copy writing.
   b) Explain what are Verbal Symbols.
   c) What is the importance of having a good 'Layout'
   d) Write a short note on 'Illustrations'.
   e) What is the difference between Humorous Copy and Mood copy
   f) Write a short note on advertising agency.

Q.II. Answer any **four** of the following   (16)

   a) Write a short note on TV Advertising
   b) Write a short note on Radio Advertising.
   c) Explain any four features of an effective Posters.
   d) What is the importance of Colour in advertising.
   e) Explain four methods.
   f) Write a short note on Client turnover.

Q III Answer any **one** of the following.   (12)

   A) Explain the different methods of Pre testing on advertisement.

OR
   B) Explain the different methods of post testing on advertisement.

QIV Answer any **one** of the following.   (12)

   a) Explain the factors to remember while designing a poster.
OR
   b) Explain what is 'Projective Techniques' and explain all the four
      methods under it with examples.

QV Answer any **one** of the following. (12)

   a) Explain the different methods of
      i. Advertising compensation methods
<div align="center">OR</div>

      ii. What are the advantages of going to an advertising agency to advertise?

Q VI Answer any **one** of the following. (12)

   a) Write a Radio advertising script for promoting reduced use of plastics.
<div align="center">OR</div>

   b) Explain the factors to be borne in mind while choosing on advertising agency.

<div align="center">XXXXXXXXXXXX</div>

B.COM. (SEMESTER-IV) SUPPLEMENTARY EXAMINATION
MAY/JUNE 2014
COMPUTER APPLICATIONS FOR BUSINESS

Duration : 1 ½ hours   Marks: 40

Instructions: 1. All questions are compulsory.
              2. Draw diagrams wherever necessary.

Q.1 A) Answer <u>any two</u> of the following   (2x5=10)
    i) Explain the Porter's value chain model.
    ii) What are the different online payment systems. Explain.
    iii) State and explain the different types of e-commerce with an example.

Q.2 A) Explain delivery of goods in an e-shop.   (2)

  B) Answer the following: (2x4=8)
    i) What is Internet Banking ? What are the advantages of Internet Banking?
    ii) What are the risks involved in Internet banking?

Q.3 A) Answer <u>any one</u> of the following: (4)
    i) Briefly describe the IT Act, 2000.
    ii) What are the shortcomings of IT Act ?

  B) Answer <u>any two</u> of the following: (2x3=6)
    i) What is the difference between IPv4 and IPv6?
    ii) Write a note on website monitoring.
    iii) What are the differences between LAN and WAN?

Q.4 A) What are the seven principles of security?   (4)
  B) What is a Search Engine?   (2)
  C) Write short note on <u>any one</u> of the following.   (4)
    (i) Advantages of Online Share Trading   (ii) Dematerialization process

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Goa Vidyaprasarak Mandal's

GOPAL GOVIND POY RAITURCAR COLLEGE OF COMMERCE AND ECONOMICS, PONDA -GOA

B.COM. (SEMESTER- IV) SUPPLEMENTARY EXAMINATION, MAY/JUNE 2014
BUSINESS FINANCE

Duration: 2 hours   Marks: 80

Instructions: 1) All questions are compulsory
2) Figures to the right indicate full marks

Q. 1 Answer **any FOUR** of the following: -   (4 x 4 = 16)
a) State the difference between Trade Credit & Bank Credit.
b) Explain the importance of Indigenous Bankers.
c) Explain the concept Certificate of Deposit.
d) Explain the forms of foreign capital (Any two).
e) What are options & warrants?
f) Explain Customer Advances as a source of finance.

Q. 2 Answer **any FOUR** of the following   (4 x 4 = 16)
a) Write a short note on self financing as a source of finance.
b) Explain the concept of foreign Direct Investment.
c) Explain the merits of preference share.
d) Lease finance v/s Hire purchase system.
e) Explain the merits associated with underwriting.
f) Explain the concept of Venture capital.

Q.3 a) Explain lease finance as a source of finance with its merits
& demerits.   (12)
OR
Q.3 x) Explain factoring as a source of finance and explain its merits.   (12)

Q.4 a) Public deposits act as a popular source of finance" Comment and
highlight the major merits & drawbacks of public deposits.   (12)
OR

Q.4x) What is listing of securities? Explain the advantages & disadvantages of listing of securities. (12)

Q.5a) What is mutual funds? Discuss various schemes of mutual funds. (12)

OR

Q.5x) What is stock exchange? Explain the functions performed by the Stock Exchange. (12)

Q.6a) Explain in brief the role of SEBI in investor protection & guidance. (12)

OR

Q.6x) Write a short note on **any three**. (12)
  a) Demat of shares.
  b) Rights Issue.
  c) Equity capital & its advantages.
  d) Merchant Banking Institution.
  e) Types of capital market.

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