

Vidya Vikas Mandal's
Shree Damodar College of Commerce and Economics Margao-Goa
S.Y.B.COM SEM IV, SEMESTER END EXAMINATION, APRIL 2019
BUSINESS COMMUNICATION II (Old course)

Duration: 2 hours

Marks: 80

Instructions:

Figures to the right indicate marks.

Start each question on a fresh page.

All questions are compulsory

Q1. A) Answer any four of the following.

(16 marks)

- a. What is the main aim of the Right to information Act (RTI)?
- b. What are the duties of the PIO?
- c. Explain the significance of the "Reference Number" in a business letter.
- d. Explain stress interviews.
- e. Explain the use of the "Subject Line" in a business letter.
- f. What are the major drawbacks of interviews?
- g. Draft a Warning Memo to be given to the secretary of a firm.

Q1. B) Answer any four of the following.

(16 marks)

- a. Explain the term "Information" with reference to the RTI Act of 2005.
- b. What disciplinary actions can be implemented for denying information under the RTI Act without providing a cause within 30 days of time?
- c. Explain the use of the "Confidential" Notification in a business letter.
- d. Explain the uses of Job Boards.
- e. Explain the sales aspects of the Job Application Letter.
- f. Write a short note on Individual Report.
- g. Draft a press release on the occasion celebrating 25 years of your organization.

Q2. Answer any one of the following.

(12 marks)

A) Draft an application along with a C.V for the following advertisement:

Wanted a software engineer for a Multinational company based in U.S.A. Candidates having a minimum of 3 years experience in computer hardware and software may apply to box no.345, the Free Press Vacancies Magazine- Mumbai.

B) Explain the four phases of conducting an interview.

Q3. Answer any one of the following :

(12 marks)

A) The Sport Accessories Shop, Margao, had ordered large quantities of sports material in the month of September. The goods, however, were delivered in January. As the proprietor of this shop, write a letter of Complaint to the wholesaler dealing with sports accessories asking him for a discount on delayed goods.

B) You are the sports coach for a junior sports club in your village/city. Write a letter of inquiry to a dealer of sports equipment asking an estimate cost of sports material required for your sports club.

Q4. Answer any one of the following:

(12 marks)

A) A newly built school is in need of infrastructure facilities. As the Principal draft a tender notice.

B) Draft a Sales Letter to promote the sale of a new electrical kitchen gadget.

Q5. Answer any one of the following:

(12 marks)

- A) A committee of professors has been appointed by the principal of a college to submit a report on the causes of poor attendance and indiscipline on the campus. Draft the committee's report providing findings and recommendations.
- B) Draft a representation to the Panchayat/ Municipality on behalf of the villagers/residents, to address the issue of garbage disposed in the natural water bodies of your area causing health hazards due to water contamination. Recommend suggestions for improvement.

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Shree Damodar College of Commerce and Economics Margao-Goa
S.Y.BCOM Semester IV End Semester Examination April 2019
BUSINESS ENVIRONMENT-II (old course)

Duration: 2 hours

Max. Marks: 80

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

Q.1 Write short note on any FOUR of the following: (4x4=16)

1. Meaning of Capitalism
2. Meaning of Economic dualism
3. Concept of Ease of doing business
4. Meaning Consumer and their complaints
5. Consumer dispute redressal agencies
6. Concept of Right to information Act (2005)

Q.2 Write short note on any FOUR of the following: (4x4=16)

1. Brief Current status of Goan Economy
2. Concept of Tourism in Goa
3. List out four Industrial estates in Goa
4. Corporate social responsibility by business houses in Goa
5. Concept of Mining in Goa
6. Two Services provided by Goa Chamber of Commerce and Industry

Q.3 A) Explain the Meaning and objectives of Economic planning in India (12)
OR

Q.3 B) Explain the parameters of ease of doing business index

Q. 4 A) Explain the Environmental Protection Act 1986 (12)
OR

Q.4 B) Explain the Right to information Act and its six objectives

Q.5 A) Explain the Industrial policy in Goa (12)
OR

Q.5 B) Explain any six functions of panchayat

Q.6 A) Explain the commercial associations in Goa (12)
OR

Q.6 B) Explain the environmental movements in Goa

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S.Y. B.Com Semester IV End Examination– April 2019

Business Finance (old course)

Duration : 2 Hours

Max. Marks 80

- Q.1. Write short notes on **any 4** of the following: (4 x 4 Marks) 16 Marks
- a) Preference Shares
 - b) Installment Credit
 - c) Functions of Merchant Bankers
 - d) New Issue Market
 - e) Self-financing
 - f) DeMat
- Q.2. Write short notes on **any 4** of the following: (4 x 4 Marks) 16 Marks
- a) Types of Mutual fund Schemes
 - b) Options
 - c) Warrants
 - d) Functions of Stock Exchanges
 - e) Public Deposits
 - f) Bulls (Tejiwala)
- Q.3X. Explain the merits and demerits of issue of equity shares as a long-term source of finance 12 Marks
- OR**
- Q.3Y. What are debentures? Explain its advantages and disadvantages. 12 Marks
- Q.4X. What is Trade Credit? Explain its merits and demerits (4 points each). 12 Marks
- OR**
- Q.4Y. What is factoring? Explain its advantages and the disadvantages. 12 Marks
- Q.5X. What is Lease Finance. Differentiate between Lease finance and Hire Purchase. 12 Marks
- OR**
- Q.5Y. State the different methods of Marketing of securities. 12 Marks
- Q.6X. What is Underwriting of Securities? Explain its merits. 12 Marks
- OR**
- Q.6Y. What is Listing? Explain its advantages. 12 Marks

ECONOMICS OF RESOURCES (old course)

Duration: 2 hrs

Max Marks: 80

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate maximum marks to the questions.
3. Answer sub-questions in Question no.1 & Question no. 2 in not more than 100 words each.
4. Answer Question no.3 to Question no. 6 in not more than 400 words each.

Q1 Write short notes on any four of the following:

1. Define Environmental Economics. (4x4)=16
2. Write a note on the optimist model.
3. Write a note on sustainable development.
4. What are the problems of Open- access resources?
5. Explain the relationship between environmental economics and business.
6. Explain the concept of private and social benefit.

Q.2 Write short notes on any four of the following:

(4x4)=16

1. Write a note on carbon credit.
2. Explain economic efficiency with the help of a diagram.
3. What are environmental subsidies?
4. What is market failure? Give any two examples
5. Describe the classification of resources.
6. Mention any four benefits of Environmental impact assessment.

Q.3 A) Explain with the help of data, India's dependence on imports for its energy requirements.

(12)

OR

B) Comment on energy as a resource for economic growth and development.

(12)

Q.4 A) Explain the causes of water related problems in India. Suggest some remedies to tackle the problem of water pollution.

(12)

OR

B) Discuss the challenges faced in the water sector. What are the measures taken to meet them in the National water Policy 2012?

(12)

Q.5 A) Describe the trend and composition of public expenditure on Education in India. **(12)**

OR

B) Discuss the private and social benefits of education. **(12)**

Q.6 A) Explain the trend in the health status indicators in India. **(12)**

OR

B) Discuss on the public and private expenditure on healthcare in India. **(12)**

STATISTICAL TECHNIQUES

Duration: 2hrs

Max. Marks: 80

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Graph paper will be provided on request.
4. Use of calculators is allowed.

- Q1 a** Explain the meaning of Correlation. 3
- b** Find Karl Pearson's coefficient of correlation for the following data and interpret the result 6

Income(x)	18	15	16	19	12	4	6
Expenditure(y)	14	12	18	21	13	5	9

- c** The lines of regression of a bivariate population are: 7
 $8x - 10y + 66 = 0$ and $40x - 18y = 214$
 Find (i) The mean values of x and y; (ii) Correlation coefficient between x and y.

OR

- Q1 x** What is difference between correlation and regression coefficients? Can correlation coefficient be computed out of regression coefficients? If yes, how? 3
- y** The following data give the experience of machine operators and their performance ratings as given by the number of good parts turned out per 100 pieces: 6

Operator	1	2	3	4	5	6	7	8
Experience (in years)(x)	16	12	18	4	3	10	5	12
Performance Ratings(y)	87	88	89	68	78	80	75	83

Calculate the regression line of performance ratings on experience and estimate the probable performance if an operator has 7 years experience.

- z** Given the following aptitude and I.Q scores for a group of students. Find the coefficient of rank and comment. 7

Aptitude Score(x)	57	58	59	59	60	61	60	64
I.Q.Score(y)	97	108	95	106	120	126	113	110

- Q2 a** Differentiate between 3
 (i) Type I and Type II errors.
 (ii) Critical region and Region of Acceptance.
- b** Coefficient of correlation between X and Y for 20 items is 0.3; mean of X is 15 and that of Y is 20, standard deviations are 4 and 5 respectively. At the time of calculations one pair (X=27, Y=30) was wrongly taken as (X=17, Y=35). Find the correct coefficient of correlation. 6

- c During the period of time phone-in reservations are being taken at a local university, calls come in at the rate of one every two minutes.
- What is the expected number of calls in one hour?
 - What is the probability of three calls in five minutes?
 - What is the probability of no calls in a five –minute period?
(Given $e^{-2.5}=0.08208$)

OR

QII x Explain Null Hypothesis and Alternative hypothesis.

- y The data about the sales and advertisement expenditure of a firm is given below:

	Sales (in crores of Rs.)	Advertisement expenditure (in crores of Rs.)
Means	40	6
Standard deviations	10	1.5

Coefficient of correlation= $r=0.9$

- Estimate the likely sales for a proposed advertisement expenditure of Rs. 10 crores.
 - What should be the advertisement expenditure if the firm proposed a sales target of 60 crores of rupees?
- z The aggregate marks scored by students are normally distributed with mean 400 and standard deviation 100. What percentages of students taking this test scored:
- Between 300 and 550
 - More than 550
 - Less than 280

[Given $P(0 < z < 1)=0.3413$, $P(0 < z < 1.2)=0.3849$, and $P(0 < z < 1.5)=0.4332$; where z is standard normal variate]

- Q3a** What is a scatter diagram? Indicate by means of suitable scatter diagrams different types of correlation that may exist between the variables in bivariate data.
- b A factory produces electric bulbs on a large scale with average life of 1500 hrs. and standard deviation of 150 hrs. In a lot of 3000 bulbs, how many bulbs are likely to have life?
- Of less than 1100hrs.
 - More than 1850 hrs.
 - Between 1100 hrs and 1700 hrs?
- [Given $P(0 < z < 1.33)=0.4082$, $P(0 < z < 2.33)=0.4901$ and $P(0 < z < 2.67)=0.4962$; where z is standard normal variate]
- c (i) A soap manufacturing company was distributing a particular brand of soap through a large number of retail shops. Before a heavy advertisement campaign, the mean sales per week per shop were 160 dozens. After the campaign, a sample of 50 shops was taken and the mean sales was found to be 167 dozens with standard deviation of 22.4. What conclusion do you draw on the impact of advertisement on sales? Use 5% significance level.
- (ii) Describe the important properties of a Good Estimator.

OR

- QIIIx Distinguish between Positive and Negative Correlation. 3
- y Military radar and missile detection systems are designs to warn a country against enemy attacks. A reliability question is whether a detection system will be able to identify an attack and issue a warning. Assume that a particular detection system has a .90 probability of detecting a missile attack. Use binomial probability distribution to answer the following questions. 6
1. What is the probability that a single detection system will detect an attack?
 2. If two detection systems are installed in the same area and operate independently, what is the probability that at least one of the systems will detect the attack?
 3. If three systems are installed, what is the probability that at least one of the systems will detect the attack?
- z The operators of the threading machine in a certain factory spoil on an average 50 bolts per 1000 over a long period of time. In a quality control inspection programme, a test run of 900 bolts resulted into 55 spoiled bolts. Determine at 5% level of significance whether the spoilage is higher than normal during the last run. Also estimate the 99% confidence interval for spoiled bolts. 7

- Q4a. Distinguish between random sampling and stratified sampling. 3
- b In a class of 100 students, 42 studied statistics, 68 Economics, 54 Commerce, 22 both statistics and Commerce, 25 both Statistics and Economics, 7 Commerce and neither Statistics nor Economics, 10 studied all the three subjects and 8 did not take any of the three. If a student is selected at random, find 6
1. The probability that he takes Commerce and Economics but not Statistics.
 2. The probability that a person enrolled in Commerce takes all the three subjects.
 3. The probability that he takes Statistics only.
- c The following data gives the number of defectives in 10 independent samples size 50 each from a production process. Draw the control chart for fraction defective and comment on it 7

Sample number	1	2	3	4	5	6	7	8	9	10
No. of defectives	4	3	2	3	4	4	4	1	3	2

OR

- QIVx Explain the importance of sampling. What are the well-known methods of sampling in use? 3
- y Two cards are drawn from a pack of cards without replacement. Find the probability that the cards are 6
1. Both kings.
 2. An ace and a Queen in that order.
 3. At least one king.

- z The following table gives the number of defects in carpets manufactured by a company. Construct the c-chart for the number of defects and comment.

Carpet serial no.	1	2	3	4	5	6	7	8	9	10
No. of defects	3	4	5	6	3	3	5	3	6	2

- Q5 Explain the terms 'chance causes' and 'assignable causes' of variation as used in quality control.

- B i) What is control chart? Explain the basic principle underlying the control charts.

- ii) Obtain control limits for the range chart for 10 samples of size 5 for the data given below. Can the process is said to be under control with respect to mean?

Sample No.	1	2	3	4	5	6	7	8	9	10
Mean	43	49	37	44	45	37	51	46	43	47
Range	5	6	5	7	7	4	8	6	4	6

(For sample size 5, $A_2=0.577$).

- c A random variable X has the following probability distribution

$X=x$	-2	-1	0	1	2	3
$P(x)$	0.1	k	0.2	2k	0.3	k

Find the value of k and calculate mean and variance of X.

OR

- QVx Explain what you understand by process control. How is it achieved?

- y A machine is set to deliver packets of a given weight. 10 samples of size 5 each were recorded. Below are given relevant data:

Sample No.	1	2	3	4	5	6	7	8	9	10
Range	7	7	4	9	8	7	12	4	11	5

Draw the R- chart and comment on the state of control.
(For sample size 5, $D_3=0$ and $D_4=2.115$)

- z Two cards are drawn from a well shuffled deck of 52 cards. Find the probability distribution of the number of aces.
1. Successively with replacement
 2. Simultaneously (successively without replacement).