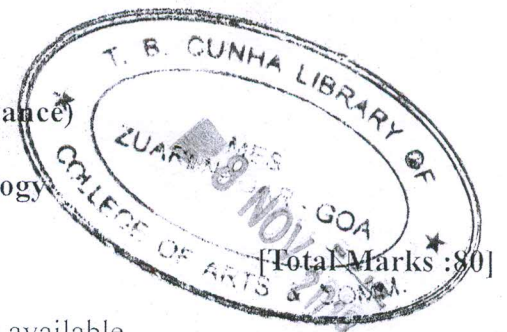


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B.A Semester - V (Under CBCS Ordinance)
EXAMINATION Oct/Nov 2019
ECONOMICS : Research Methodology



[Duration : Two Hours]

- Instructions:**
- i) All questions are compulsory, however internal choice is available.
 - ii) Answer sub-question in question 1 and question 2 in not more than 100 words each.
 - iii) Answer question 3 to question 6 in not more than 400 words.
 - iv) Figures to the right indicate maximum marks to the question/sub-question.
 - v) The paper carries maximum of 80 marks.

- Q.1** Answer any **FOUR** of the following. 16
- a) Write the meaning and goal of social research.
 - b) What is meant by the problem of quantification?
 - c) Briefly explain the importance of hypothesis in a research.
 - d) Give any four features of Social research.
 - e) What is the significance of a research Design?
 - f) Briefly explain Type I and Type II errors in social research.
- Q.2** Answer any **FOUR** of the following. 16
- a) Give any four advantages of case study method.
 - b) Point out any four features of systematic sampling.
 - c) Write a short note on merits of survey method.
 - d) What is meant by experimental method?
 - e) What is meant by multi-stage sampling?
 - f) Distinguish between structured and unstructured interview.
- Q.3** A) Explain the criteria of Good Research. List out the types of research. 12
- OR**
- B) Illustrate any four characteristics of scientific method. 12
- Q.4** A) Elaborate problems of research in social sciences. 12
- OR**
- B) Explain with examples features of a Good Hypothesis. 12
- Q.5** A) Give advantages and disadvantages of experimental method. 12
- OR**
- B) How effective is the case study method in research? 12
- Q.6** A) Enumerate the merits and demerits of Random sampling method. 12
- OR**
- B) Discuss the sources of Secondary data with examples. 12

Total No. of Printed Pages:02

4

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B.A Semester - V (Under CBCS Ordinance)
EXAMINATION Oct/Nov 2019
ECONOMICS - International Economics I

[Duration : Two Hours]

[Max. Marks :80]

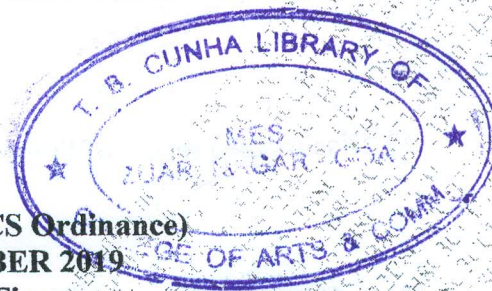
Instructions:

- i) All questions are compulsory. However internal choice is available.
- ii) Answer sub-questions in Question I and Question II in not more than 100 words.
- iii) Answer Question III to Question VI in not more than 400 words each.
- iv) Figures to the right indicate maximum marks to the question /sub-questions.
- v) Draw neat diagrams wherever necessary.

- I A) Answer any four of the following: (4x4=16)
- i) What is meant by commodity terms of trade?
 - ii) State the theory of comparative Advantage using the concept of opportunity Cost
 - iii) Give an outline of Prebisch –Singer thesis
 - iv) How do differences in taste serve as the basis of international trade?
 - v) Summarise the process underlying factor-price equalization with reference to international trade.
 - vi) Explain 'Leontief Paradox'.
- II Answer any four of the following: (4x4=16)
- i) Present any two non-economic arguments in favour of a protectionist trade policy.
 - ii) What are export subsidies?
 - iii) Explain the term 'Eco Labeling'.
 - iv) Define 'Counter trade' and explain any one of its forms.
 - v) Bring out any two types of import quotas.
 - vi) Highlight any two significant aspects of the latest wave of globalization.
- III A) What is international trade? What are its distinguishing features? (12)
- OR
- B) Explain Mill's theory of reciprocal demand. (12)
- IV A) How is the term factor abundance defined in Heckscher –Ohlin theory of external trade? Point out any four defects of this theory. (12)
- OR
- B) Define intra-industry trade. Give its characteristics and state reasons for its occurrence. (12)
- V A) What is free trade? Make a case against free trade? (12)
- OR
- B) Explain in various types of tariffs. (12)

- VI A) Examine the trends in the value of India's foreign trade since 1991. (12)
OR
B) What does globalization mean? Show the positive impact of globalization of trade. (12)

Total No. of Printed Pages:2



B.A. Semester - V (Under CBCS Ordinance)
EXAMINATION OCTOBER 2019
ECONOMICS : Public Finance

[Duration : Two Hours]

[Max. Marks: 80]

Instruction :

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

Q.1 Answer any four of the following: **(16 marks)**

- a. Highlight the positive aspects of Public Finance.
- b. How does non-excludability lead to market failure?
- c. What are the limitations of the Principle of Maximum Social Advantage? (Explain any two).
- d. Explain the basic approach of supply side fiscal policy.
- e. What is price stability?
- f. What is the importance of budget for the economy?

Q.2 Answer any four of the following: **(16 marks)**

- a. What is the difference between Performance and Programme budgeting?
- b. What is the significance of Incremental budgeting?
- c. List out any four recommendations of the tax reforms committee in India.
- d. What is a Revenue Deficit?
- e. Explain the horizontal devolution of resources in India according to 14th Finance commission.
- f. What are the functions performed by Municipalities?

Q.3 A) Explain any three conflicting objectives of the Fiscal Policy. **(12 marks)**

OR

B) What is the difference between Private Finance and Public Finance? **(12 marks)**

Q.4 A) Write a note on automatic fiscal policy stabilizer. **(12 marks)**

OR

B) Discuss the Zero based budgeting technique. **(12 marks)**

Q.5 A) Discuss the process of Preparation and Enactment of the budget in India. (12 marks)

OR

B) Comment on Revenue Account and Capital Account of the central government. (12 marks)

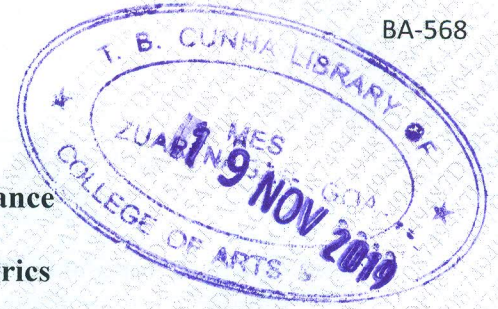
Q.6 A) List out and explain the functions performed by State Finance Commission. (12 marks)

OR

B) Elaborate on division of powers and resources according to the Constitution of India. (12 marks)

Total No. of Printed Pages:02

**B.A. (Semester – V) Under CBCS Ordinance
EXAMINATION Oct/Nov 2019
ECONOMICS : Statistics and Econometrics**



[Duration : Two Hours]

[Total Marks :80]

Instructions:

- i. Answer all questions.
- ii. Answer sub- questions in Question No.1 and question No.2 in not more than 100 words each.
- iii. Questions 3, 4, and 5 are problems and as such no word count is necessary.
- iv. Answer question no.6 in not more than 400 words each.
- v. Figures to the right indicate marks.
- vi. Use of simple calculator is allowed.
- vii. Statistical tables will be provided on request.

Q.1 Answer **any four** of the following:

(16)

- i) Distinguish between descriptive statistics and inferential statistics.
- ii) Write a short note on standard deviation as a measure of dispersion.
- iii) Briefly explain the concept of expected value of a random variable.
- iv) Write short note on merits of median as a measure of central tendency.
- v) High correlation does not necessarily imply causation. Justify with reasons.
- vi) State and explain any four features of F- distribution.

Q.2 Answer **any four** of the following:

(16)

- i) Differentiate between parametric and non – parametric tests.
- ii) State and explain any two use of econometrics.
- iii) Write a short note on properties of estimators.
- iv) Interpret the following example of an estimated econometric model:
sale of ice cream (000'sRs) = 2000 – 2.5 (price of ice cream)
- v) Write a short note on types of errors in hypothesis testing.
- vi) Differentiate between one tailed test and two tailed test.

Q.3 A) The data below provides the frequency distribution of the time (in seconds) taken by 30 students to complete a mathematical problem. Calculate the mean, median and mode in terms of time taken. (12)

Seconds	50 – 60	60 – 70	70 – 80	80 – 90	90 – 100
Frequency	3	7	10	6	4

OR

B) The following frequency distribution was tabulated for a random sample of 80 restaurants surveyed in Goa; the data refers to weekly profits of these restaurants (in thousands of Rupees) . Calculate the mean, variance and standard error for weekly profits. (12)

Weekly Profits in (000's Rs)	15	20	25	30	35	40
Number of Restaurants	5	14	18	20	15	8

- Q.4 A) The consumption (in thousands of Rs.) and saving (in thousands of Rs.) for 8 individuals are (12) tabulated below. Calculate Karl Pearson's coefficient for correlation; and determine the nature of correlation between the variables.

Consumption in (000's Rs)	10	19	18	20	8	14	15	16
Saving in (000's Rs)	12	8	12	8	20	15	15	10

OR

- B) The marks of 10 random students in Mathematics and Economics were collected in an attempt to study if there exists any correlation between the marks in these subjects. Calculate Spearman's Rank correlation coefficient and comment of the result with regard to the study. (12)

Marks in math	85	75	62	90	45	50	60	65	70	55
Marks in Economics	95	73	92	83	65	75	45	72	81	60

- Q.5 A) Following data provides the test scores of students for two schools (Schools A and Schools B). Assuming that the samples were drawn from a normal population, test if the variances in test scores for schools are significantly different. (Given : significance level 0.05) (12)

School A	66	67	75	76	82	84	88	90	92
School B	64	66	74	78	82	85	87	92	93

OR

- B) Over the last year it was observed that there has been growing concern regarding traffic management on the Panaji – Margao route. A survey of 1000 individuals from Panaji and Margao was conducted to study their level of satisfaction on traffic management (unsatisfactory, satisfactory, and highly satisfactory) on the Panaji – Margao route. Use the data below, to test if there exists a significant difference in the proportion of individuals' level of satisfaction between Panaji and Margao. (12)

	Unsatisfactory Management	Satisfactory Management	Highly Satisfactory Management	Total
Panaji	200	150	200	550
Margao	150	220	80	450
Total	350	370	280	1000

- Q.6 A) Briefly explain the steps involved in the methodology of econometrics. (12)

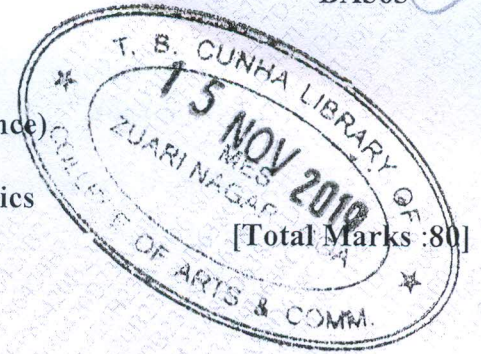
OR

- B) Using an example, comment on specifying the econometric model of a theory as compared to specifying the mathematical model of a theory. (12)

Total No. of Printed Pages:03

B.A Semester - V (Under CBCS Ordinance)
EXAMINATION Oct/Nov 2019
ECONOMICS - Mathematical Economics

[Duration : Two Hours]



Instructions:-

- 1) All questions are **compulsory**.
- 2) Figures to the **right** indicate marks assigned.
- 3) **Graph paper** will be provided on request.
- 4) Use of non-programmable calculator is **allowed**.

1. Answer **any four** of the following:

[4 × 4 = 16]

- i) If $f(x) = 5x + 4$, $g(x) = x - 3$. find $f[g(x)]$ and $g[f(x)]$.
- ii) Graph the following cost function: $C = 30 + 20x$
- iii) Evaluate : $\lim_{x \rightarrow 2} \frac{x^2 + 4x - 12}{x^2 - 2x}$
- iv) Factorize: $3x^2 + 2x - 8$
- v) Determine where the function $f(x) = \frac{11-2x}{2x^2-13x-7}$ is discontinuous.
- vi) If Rs. 1000 is invested at 8% simple interest per year, find the amount after (a) one year and (b) five years.

2. Answer **any four** of the following:

[4 × 4 = 16]

- i) Differentiate $y = 3^x(\ln x)$; with respect to 'x'.
- ii) The cost of producing 'x' items is given by $C(x) = 5x^2 + 2x + 4$. Find the average cost and marginal cost when $x=3$.
- iii) The demand function for a commodity is given by $P = 20 - D^2$. Find the total revenue function and marginal revenue function when $D=3$.
- iv) Evaluate: $\int (5x^4 - 5^x + 12) dx$
- v) Evaluate : $\int_1^3 \frac{(x^2+9x+20)}{(x+4)} dx$
- vi) If the marginal revenue for a certain product is given by:
 $MR = 4x^3 + 8x + 15$; find (a) Total revenue and (b) average revenue when $x=5$

3. (A) Solve the following simultaneous equation using elimination method

[6]

$$3x + 5y = 20$$

$$8x + 7y = 50$$

(B) An investor needs to choose between two schemes for fixed deposits for 3

[6]

years. Scheme 'A' offers 15% interest and is calculated yearly. Whereas scheme 'B' offers 12% interest, calculated half yearly. Assuming compound

interest and a principle amount of Rs.5,000; determine which scheme is beneficial.

OR

(X) Discuss the continuity of the following functions:

[3 × 2 = 6]

i) $f(x) = \frac{6+2x}{7x-14}$ at $x=0$ and $x=2$

ii) $f(x) = \frac{2x}{x^2-25}$ at $x=-1$ and $x=3$

(Y) Evaluate the following limits if they exist:

[3 × 2 = 6]

i) If $f(x) = \begin{cases} x^2 - 5 & x < -2 \\ 1 - 3x & x \geq -2 \end{cases}$

Compute: $\lim_{x \rightarrow 6} f(x)$ and $\lim_{x \rightarrow -2} f(x)$

ii) $\lim_{x \rightarrow 2} \frac{x^7 - 128}{x^5 - 32}$

4.

(A) Differentiate the following with respect to 'x'

[3 × 2 = 6]

i) $y = 5\sqrt{(x^2 + 3x - 5)}$

ii) $y = \frac{(\ln x)}{(x^2 + 2x + 5)}$

(B) If the revenue function of a firm is given by $R = 30x - x^2$ and cost function is given by $C = x^2 - 2x + 5$; find the following: [6]

- Output at which marginal cost is minimum
- Determine the profit function
- Output at maximum profit

OR

(X) Find the second order derivative of the following:-

[3 × 2 = 6]

i) $y = (12e^x + 5^x - 2\sqrt{x})$

ii) $y = \ln x (e^x)$

(Y) If the total cost of producing 'x' units of a product is given by $TC = x^2 + 5x + 30$; find the following: [6]

- Fixed cost and Variable cost
- Average cost when $x=5$
- Marginal cost when $x=5$
- Will a change in the fixed cost have any effect on the Marginal cost? Kindly Justify.

5. (A) Find the partial derivative of the following functions (f_x and f_y)

[3 × 2 = 6]

i) $f(x, y) = x^3 + y^3 - 5x^2y + 2y^2x + 10$

ii) $f(x, y) = y(\ln x) + x^5e^y + xy$

(B) If a production function is defined by $Q(L, K) = L^3 - 5L^3K^2 + 2LK^3 - 10$; [6]

Where 'L' and 'K' represent labour and capital; calculate the following:

- Marginal productivity of labour and marginal productivity of capital when $L=2$ and $K=3$.
- Estimate the second order partial derivatives for the production function (MP_{LL} and MP_{kk})

OR

(X) Find the second order partial derivatives of the following functions [3 × 2 = 6]

(f_{xx} and f_{yy})

- $f(x, y) = x^2(\ln y) - (\ln x)y^3$
- $f(x, y) = 5x^3y^2 + 2xy - 5xy^3 + 10$

(Y) If the Utility function is given by $U(x, y) = x^2 + 5xy + 2y^3 + 80$; find the marginal utilities for 'x' and 'y' when $x=5$ and $y=3$. [6]

6. (A) Evaluate the following integrals: [3 × 2 = 6]

- $\int \left[x^{10} + \frac{1}{x} - 3^x \right] dx$
- $\int [3x + 12e^{(x)} - 2\sqrt{x}] dx$

(B) If the demand function and supply function for a product are $p = 12 + 6x - 3x^2$ and $p = 6x^2 - 2x - 8$ respectively; find the consumer surplus and producer surplus at $x=5$. [6]

OR

(X) Evaluate the following definite integrals: [3 × 2 = 6]

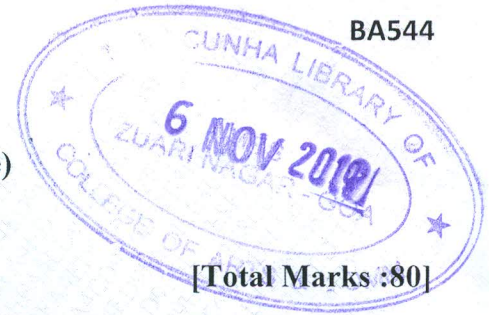
- $\int_0^3 (5x^4 + 2x + 10) dx$
- $\int_0^5 \frac{(x^2 + 11x + 30)}{(x+5)} dx$

(Y) The marginal cost and marginal revenue for 'firm Z' are $MC = 3x^2 - 20x + 100$ and $MR = 20x + 300$ respectively. If the fixed cost is assumed to be Rs. 1, 000; find the following: [6]

- Total cost function and total revenue function
- Average cost function and average revenue function
- Profit function and profit at $x=10$

Total No. of Printed Pages:01

**B.A Semester - V (Under CBCS Ordinance)
EXAMINATION OCT/NOV 2019
ECONOMICS : Indian Economy - I**



[Total Marks :80]

[Duration : Two Hours]

Instructions:

- a) All questions are compulsory. However internal choice is available.
- b) Answer sub-questions in question 1 and 2 in not more than 100 words.
- c) Answer Questions III to IV in not more than 400 words each.
- d) Figures to the right indicate maximum marks.

1. Answer any four of the following questions: 16
 - a) Briefly discuss the concepts of economic development.
 - b) Write a short note on standard of living as an indicator of development.
 - c) Explain GNP and NDP as measures of income indices.
 - d) Outline four reasons for inter-state differences in the density of population.
 - e) What were the various goals of Sarva Shiksha Abhiyan (SSA)?
 - f) Discuss the socio economic implication of declining sex ratio in India.

2. Answer any four of the following questions: 16
 - a) Explain how poverty is measured in India.
 - b) Examine any four weaknesses of Integrated Rural Development Programme (IRDP)
 - c) What are the various objectives of Jawaharlal Rozgar Yojna? (Any four)
 - d) Highlight any four problems of agriculture in Goa.
 - e) Explain the concepts of literacy rate in Goa with respect to the 2011 census.
 - f) State the main sources of revenue of the Government of Goa.

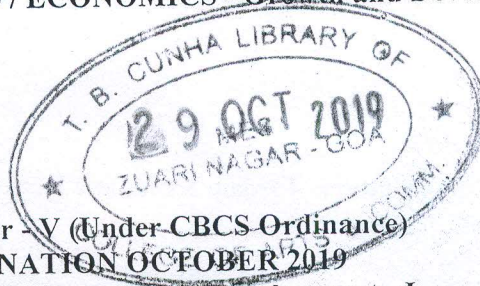
3.
 - a) Discuss the state of the Indian economy on the eve of independence. 12
 - OR
 - b) State and explain the non income indices of economic development 12

4.
 - a) Critically evaluate the National Population Policy (2000). 12
 - OR
 - b) Outline the various measures taken to reduce malnutrition in India. 12

5.
 - a) Examine the nature and causes of unemployment in India. 12
 - OR
 - b) Explain the indicators of inequalities among the major states of the Indian economy. 12

6.
 - a) Tourism has positive and negative impacts on the Goan economy. 12
 - OR
 - b) Discuss the performance of the State Public Finances during the last three financial years. 12

Total No. of Printed Pages:2



B.A. Semester - V (Under CBCS Ordinance)
EXAMINATION OCTOBER 2019
ECONOMICS : Growth and Development - I

[Duration : Two Hours]

[Max. Marks: 80]

Instructions:-

- i. All questions are compulsory, however internal choice is available.
- ii. Answer sub-questions in question 1 & question 2 in not more than 100 words each.
- iii. Answer question 3 to question 6 each in not more than 400 words.
- iv. Figures to the right indicate maximum marks to the question/sub-question.
- v. Paper carries maximum of 80 marks.

1. Answer any four of the following: 16
 - i) Briefly explain 'Economic Growth'.
 - ii) Discuss in brief 'Food Production'
 - iii) What is urban unemployment?
 - iv) Explain in brief economic development with unlimited supplies of labour.
 - v) Briefly explain the supply response of agriculture.
 - vi) Write a short note on 'Education'.

2. Answer any four of the following: 16
 - i) Briefly explain Average – Capital –Output ratio.
 - ii) Write a short note on regional inequalities.
 - iii) Explain in brief social and international obstacles to development.
 - iv) Discuss in brief the contribution of Malthus to economics.
 - v) Briefly explain the balanced growth model.
 - vi) Write a short note on the model of low level equilibrium trap.

3. A) Discuss 'Per Capita Income' and 'Human Poverty Index' 12

OR

B) Explain the convergence of development gap in detail. 12

4. A) Explain the relationship between poverty, famines and entitlements in detail. 12

OR

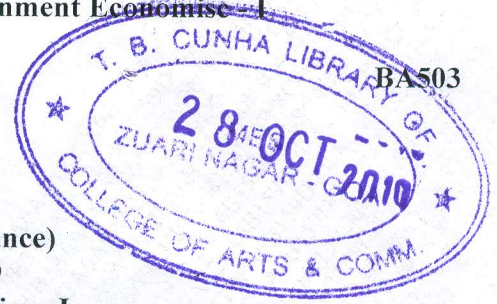
B) Discuss Rural-Urban-Migration. 12

5. A) Elaborate the conflicting role of population growth in the development process. 12

OR

B) Critically evaluate the Solow-Swan neo-classical growth theory. 12

6. A) Discuss the contribution of Adam Smith and Karl Marx to economic growth and development. 12
- OR
- B) Critically evaluate the unbalanced growth model. 12



Total No. of Printed Pages:2

**B.A. Semester-V (Under CBCS Ordinance)
EXAMINATION OCTOBER 2019
ECONOMICS: Environmental Economics - I**

[Duration : Two Hours]

[Max. Marks :80]

Instructions:

- i) All questions are compulsory, however internal choice is available.
- ii) Answer sub-questions in question 1 and question 2 in not more than 100 words each.
- iii) Answer question 3 to question 6 each in not more than 400 words.
- iv) Figures to the right indicate maximum marks to the question / sub question.
- v) Paper carries maximum of 80 marks.

1. Answer any four of the following

(4x4=16)

- a) Outline the interlink between economy and environment.
- b) State why externalities are a market failure.
- c) Outline the meaning and importance of biological diversity.
- d) Write a note on the power of markets.
- e) State the Fundamental Balance equation. Outline the ways of reducing M.
- f) What does an Environmental Impact Statement contain?

2. Answer the following in not more than 100 words.

(4x4=16)

- a. Briefly highlight the differences between stated and Revealed Preference methods of Environmental valuation.
- b. What is 'benefits transfer' in the context of environmental valuation?
- c. State the problems with Choice Experiment method.
- d. Is GNP a good measure of well-being? Explain.
- e. Which are the strong sustainability indicators?
- f. Briefly explain the outcome approach of defining sustainable development.

3. a. How are pollutants classified? Give relevant examples.

12

OR

b. Explain the working of the Transferable Discharge Permit System.

12

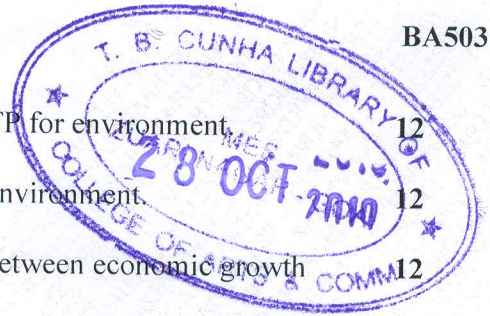
4. a. Explain the stages of Cost-Benefit Analysis.

12

OR

b. Discuss the ways in which environment has economic value.

12



5. a. Explain the contingent valuation method of estimating WTP for environment. 12
OR
b. Discuss the Production Function approach of valuing the environment. 12
6. a. Using the Environmental Kuznets Curve discuss the link between economic growth and environmental quality. 12
OR
b. Explain GNNP and genuine Savings as measures of sustainable development. 12