

Burdwan Raj College
Department of Economics
Internal Assessment: Home Assignment

**(To be Submitted to designated email id mentioned below by 18th
November 2020)**

Semester: IV

Subject: ECONOMICS (*Hons*)

Paper: CC-8 (Selected Features of Indian Economy)

Send your assignments to (email id): nupurnag@gmail.com

Full Marks: 50

1. Answer any six: 5x6=30

- a. After independence, with the beginning of planning, which were the most crucial changes in the economy of India?
- b. In Indian economy, what is known as the ‘debate between growth and distribution’? Discuss.
- c. Which are the main causes of rapid growth of population in India?
- d. Name and describe some of the major health programmes launched by the Government of India.
- e. Which are the major causes of income inequalities in India?
- f. Which are the objectives of fiscal policy in India?
- g. Which are the objectives of the monetary policies of the Reserve Bank of India?
- h. What is the basic structure of Indian money market?

2. Answer any two: 10x2=20

- a. Discuss the centre-state financial relation in India.
 - b. Which are the main objectives of Indian Planning?
 - c. Discuss the new development strategy of India.
 - d. Which are the main causes of low productivity in Indian Agriculture?
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Procedure of Appearing in the Internal Examination:

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- 3. The assignment must carry the following details of the student:**
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Department of Economics
Internal Assessment: Home Assignment

(To be Submitted to designated email id mentioned below by 18th November 2020)

Semester: IV

Subject: ECONOMICS (Hons)

Paper: CC-9 (Statistical Methods – II)

Send your assignments to (email id): mahaswetaroy78@gmail.com

Full marks: 50

The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

1. Answer any six (06) questions: 5×6=30
 - a. If the mean of Binomial distribution is 4 and variance is 3, then what is the value of p? For two independent events A and B, show that: $P(A \cup B) = P(A) + P(B)$. Distinguish between parameter and statistics. 2+2+1=5

(দ্বিপদী বিতরণের গড় যদি 4 হয় এবং তার তম্য 3 হয় তবে P এর মান কত? A এবং B দুটি স্বাধীন ইভেন্টের জন্য, দেখাও যে: $P(A \cup B) = P(A) + P(B)$. প্যারামিটার এবং পরিসংখ্যানের মধ্যে পার্থক্য করো।)
 - b. State and Prove Bayes' theorem. 5

(Bayes' এর উপপাদ্যটিকে লেখো ও প্রমাণ করো)
 - c. If two balls drawn one after one from a bag containing 3 white and 5 black balls, what is the probability that (i) the first ball is white and second ball is black. (ii) one ball is white and other is black. 5

(তিনটি সাদা এবং ৫ টি কালো বলযুক্ত ব্যাগ থেকে একের পর এক দুটি টানা হলে, সম্ভাব্যতা কী যে (i) প্রথম বলটি সাদা এবং দ্বিতীয় বলটি কালো। (ii) একটি বল সাদা এবং অন্যটি কালো হবে?)
 - d. Define probability density function. Verify following function is probability density function. 5

(সম্ভাব্যতা ঘনত্ব ফাংশন সংজ্ঞায়িত করো। নিম্নলিখিত ফাংশন যাচাইকরণ হলে সম্ভাব্যতা ঘনত্ব ফাংশন দেখাও- $f(x) = \frac{1}{\pi} \cdot \frac{1}{1+x^2}$; $-\infty \leq x \leq \infty$)
 - e. What do you mean by unbiased estimator? If T_1 and T_2 be two statistics with $E(T_1) = \theta_1 + \theta_2$ and $E(T_2) = \theta_1 - \theta_2$, Find the unbiased estimator of θ_1 and θ_2 . 5

(নিরপেক্ষ অনুমানক বলতে কী বোঝো? যদি T_1 এবং T_2 , $E(T_1) = \theta_1 + \theta_2$ এবং $E(T_2) = \theta_1 - \theta_2$ সহ দুটি পরিসংখ্যান হয় তবে θ_1 এবং θ_2 এর নিরপেক্ষ অনুমানকটি সন্ধান করো।)

f. What is a convex set? Prove that the consumer's budget set is a Convex set.

(উত্তল সেট কি? প্রমাণ করুন যে গ্রাহকের বাজেট সেটটি উত্তল সেট।)

2+3=5

g. Find the expectation and standard error of population proportion in case of SRSWOR.

(SRSWOR এর ক্ষেত্রে সমগ্রকের অনুপাতের গাণিতিক প্রত্যাশা এবং মান ত্রুটি সন্ধান করো।)

h. What do you mean by Type 1 and Type 2 error? explain the concept of level of significance

(Type 1 এবং Type 2 ত্রুটি বলতে কী বোঝ? উল্লেখযোগ্যতার স্তরের ধারণাটি ব্যাখ্যা করো।)

2. Answer any two (02) questions:

10×2=20

a. Find the expectation and variance of Poisson distribution.

(Poisson নিবেশনের গাণিতিক গড় ও ভেদমান নির্ণয় করো)

b. Let x be a continuous random variable with p.d.f

$$f(x) = ax; 0 \leq x \leq 1$$

$$= a; 1 \leq x \leq 2$$

$$= -ax + 3a; 2 \leq x \leq 3$$

$$= 0 \text{ elsewhere}$$

(i) Determine the constant a . (a রমান বার করো)

(ii) Compute (নির্ণয় করো): $P(X \leq 1.5)$

(iii) Write important properties of normal distribution.

(সাধারণ বিতরণের বৈশিষ্ট্য উল্লেখ করো।)

6+4=10

c. (i) Prove that (প্রমাণ করো যে)

$$P(A \cup B \cup C) = P(A) + P(B) + P(C) - P(A \cap B) - P(B \cap C) - P(A \cap C) + P(A \cap B \cap C)$$

(ii) The height distribution of a group of 10,000 men is normal with mean height 64.5" and s.d 4.5". Find the number of men whose height is a) less than 69" but greater than 35.5". (b) less than 55.5" and C) more than 73.5".

(10,000 পুরুষের একটি গ্রুপের স্বাভাবিক উচ্চতা বন্টন গড় উচ্চতা 64.5 "এবং s.d. 4.5"। এমন পুরুষদের সংখ্যা বার করো যাদের উচ্চতা a) 69 "এর চেয়ে কম তবে 35.5 এর চেয়ে বেশি"। (b) 55.5 "এর চেয়ে কম এবং c) 73.5" এরও বেশি।)

5+5=10

d. Discuss the advantages of sampling method over census method of collection of statistical information. Define stratified sampling. Explain the types of bias or error in sampling survey.

পরিসংখ্যান সম্পর্কিত তথ্য সংগ্রহের আদমশুমারি পদ্ধতির চেয়ে স্যাম্পলিং পদ্ধতির সুবিধা আলোচনা করো। Stratified sampling সংজ্ঞায়িত করো। Sampling survey তে পক্ষপাত বা ত্রুটির প্রকারগুলি ব্যাখ্যা করো।

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Semester: IV

Subject: ECONOMICS (*Hons*)

Paper: CC-10 (Development Economics)

Send your assignments to (email id): pialibd@gmail.com

Full Marks: 50

1. Answer any six: 5x6=30

- a. How do you distinguish between economic growth and economic development?
- b. Discuss the concept of sustainable development.
- c. What are Human development index and Gender related development index?
- d. What do you mean by vicious circle of poverty?
- e. Briefly explain the Lewis model.
- f. Discuss the dependency theory of Paul Baran.
- g. Briefly explain the theory of colonial exploitation developed by Frank.
- h. Discuss the model of cumulative causation developed by Myrdal.

2. Answer any two: 10x2=20

- a. Explain Nelson's model of low level equilibrium trap.
 - b. Explain the role of merchant capital in shaping underdevelopment.
 - c. Discuss the labour migration model of Harris – Todaro.
 - d. Briefly discuss various measurements of poverty.
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(To be Submitted to designated email id mentioned below by 18th November 2020)

Semester: IV

Subject: ECONOMICS (*Hons*)

Paper: SEC-2 (Basic Computer Applications)

Send your assignments to (email id): gopal.halder1969@gmail.com

Full marks: 40

1. Answer four questions in the following questions: 4x5 =20

(a) Write a four line paragraph in the following instructions

i) Front Times of Romans with 12 ii) Line space is 1.5 iii) Bold the two lines. 5

(b) Draw a Table from the following data. 5

i) Title of the table.

II) Putting data in the table and design the table

Revenue of the central Govt. of a nation

Income tax	400 (crores)
Excise	550 „
Customs	169 „
Corporate Tax	350 „
Others	150 „

(c). Find out the mean, mode, median and SD in the following data; 4, 8, 12, 16, 20
(Using formula by Excel) 5

(d) Draw a scatter diagram in the following data below: 5

Height (inches): 68 64 69 62 67 63 67 68

Weight (lbs): 135 127 149 133 145 114 152 157

(e) Represent the following data by a bar diagram showing the difference between proceeds and costs: 5

Proceeds and costs of a firm (in thousands of rupees)

Year:	1950	1951	1952	1953	1954	1955
Total proceeds:	22.0	27.3	28.2	30.3	32.7	33.3
Total costs:	19.5	21.7	30.0	25.6	26.1	34.2

(F) Find out the maximum and minimum number in the following data; 3, 8, 12, 16, 25, 10, 26, 20, 32, 2, 7 (Using formula by Excel) and Find out the Range in the following data; 3, 25, 28, 7, 12, 8, 30, 29, 4, 9, 11 (Using formula by Excel) 5

2. Answer two questions in the following questions: 2x10=20

- (a) Making a suitable 10 slides power point presentation. 10
- (b) Draw line diagrams of the following statistical information with regard to exports and imports and comment on their relationship:

Year	Values of exports (Rs.crores)	Values of imports (Rs.crores)
1937-38	301	243
1938-39	295	226
1939-40	309	230
1940-41	260	184
1941-42	276	168
1942-43	184	85
1943-44	158	89
1944-45	156	160
1945-46	182	177

And draw a pie chart with exports and imports prices 5+5=10

(c) Of the life insurance policy dividends paid in the United States 21% were taken in cash , 31% were used to pay premiums, 18% were used to purchase to additional paid -up life insurance, 30% were left with life insurance companies to earn interest. Construct a pie diagram showing these different uses of policy dividends. 10

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