6/H-16 (viii) (Syllabus-2015)

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2. (a) Explain different dimensions (a) S

(April)

ECONOMICS

(Honours)

(Development and Environmental Economics)

Marks: 75

Time: 3 hours

The figures in the margin indicate full marks for the questions

Answer five questions, taking at least one from each Unit

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1. Distinguish between economic growth and economic development. How has Human Development Index been able to comprehensively measure economic development?

5+10=15

- 2. (a) Explain different dimensions for the measurement of economic development.
 - (b) Discuss salient features of the theory of demographic transition.

UNIT-II

- 3. Discuss Lewis model of economic development. What are its limitations? 10+5=15
- 4. Critically examine Solow's model of economic growth. What are its basic assumptions?

 12+3=15

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- 5. What is democratic planning? Distinguish between decentralized and indicative planning. Do you agree with the view that decentralised planning is the best type of economic planning for a developing country like India? Give reasons.

 3+6+6=15
- 6. Describe Mahalanobis four-sector model.

 What are its major limitations? 12+3=15

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UNIT-IV

- 7. Define environment and ecology. Examine the interlinkages among population, economic growth and environment with the help of suitable examples.

 3+12=15
- 8. (a) Outline the reasons for market failure for environmental goods.
 - (b) Explain sustainable development and its indicators.

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6/H-16 (vii) (Syllabus-2015)

(April)

ECONOMICS

(Honours)

(Statistics)

Marks: 75

Time: 3 hours

The figures in the margin indicate full marks for the questions

Answer five questions, taking at least one from each Unit

UNIT-I

- 1. (a) What are the characteristics of a good measure of central tendency?
 - (b) Find the mean and standard deviation of first n-natural numbers. 3+7=10
- 2. (a) Find the 'mean deviation from median' of the following data:

17, 26, 14, 16, 12, 24, 21

(b) Calculate variance and coefficient of variation from the following data: 4+6=10

Class	Frequency
0-10	13
10-20	19
20-30	31
30-40	43
40-50	34
50-60	17
60-70	9
70-80	6

UNIT-II

3. Calculate Karl Pearson's coefficient of correlation between expenditure and sale from the data given below:

Expenditure ('000 ₹)	39	65	62	90	82	75	25	98	36	78
Sale (in lakh ₹)	47	53	52	86	62	68	60	91	51	84

4. The values of X and Y are given below:

X: 12 13 14 11 8 6 4 2 16 21 Y: 80 86 89 76 73 70 55 50 90 98

Find the two lines of simple regression. 15

(Continued)

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5. (a) Define time series and mention its components.

(b) Fit a trend equation Y = a + bX and obtain the trend values from the following data: 10+3=13

 X
 :
 0
 5
 10
 15
 20
 25

 Y
 :
 10
 14
 19
 25
 31
 36

6. (a) Define index number and briefly discuss its uses.

(b) The prices per unit and the number of units consumed for four commodities A, B, C and D in two time periods are given below:

	Base	Year	Current Year			
Commodity	Price (in ₹)	Quantity (in kg)	Price (in ₹)	Quantity (in kg)		
A	20	8	40	6		
B	50	10 - 10	60	5		
C	40	15	50	10		
D	20	20	20	15		

Compute Laspeyres', Paasche's and Fisher's index numbers. 4+4+2=10

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7. (a) State the addition and multiplication rules of probability.

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(Turn Over)

- (b) Let x be a random variable with sample space $S = \{1, 2, 3, 4, 5\}$ and $P(x = 1) = \frac{1}{16}$, $P(x = 2) = \frac{1}{4}$, $P(x = 3) = \frac{3}{8}$, $P(x = 4) = \frac{1}{4}$, $P(x = 5) = \frac{1}{16}$. Find the probability of the following:
 - (i) P(x = 4 or x = 1)
 - (ii) P(x is at least 1)
- (c) What is a binomial distribution? Show that Poisson distribution is a limiting case of binomial distribution. 2+7=9
- 8. Distinguish between the following (any three): 5×3=15
 - (a) Simple and Composite hypotheses
 - (b) Type—I errors and Type—II errors
 - (c) One-tailed and Two-tailed tests of hypothesis
 - (d) Simple random sampling and Stratified random sampling
 - (e) χ^2 -distribution and t-distribution

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