NALANDA OPEN UNIVERSITY
M.A. [Economics]
PART–I, PAPER–III
(Quantitative Method)
Annual Examination, 2011

Full Marks : 80   Time : 3 Hours

किन्हीं पाँच प्रश्नों के उत्तर दीजिए ; सभी प्रश्नों के अंक समान हैं ।
Answer any Five Questions. All questions carry equal marks.

1. (a) Define Demand function and Production function.
   माँग फलन और उत्पादन फलन को परिभाषित कीजिए ।

   (b) Find the limit of any two :—

   (i) $\underset{x \to \infty}{Lt}\ \sqrt{2} \times \left(\sqrt{x+5} - \sqrt{x}\right)$ (ii) $\underset{t \to 1}{Lt}\ \dfrac{\sqrt{t}-1}{3\sqrt{t}-1}$

   (iii) $\underset{x \to 0}{Lt}\ \dfrac{e^x - e^{-x}}{x}$ (iv) $\underset{x \to 0}{Lt}\ \dfrac{a^x - 1}{x}$

2. Find $\dfrac{dy}{dx}$ if,

   (i) $y = 7x^6 + 4x^7 + 9x^2 + 4$ (ii) $y = \log \sqrt{x^2 + 3x + 4}$ (iii) $x = y \log (xy)$

3. (a) Define Average and Marginal Revenue.
   औसत एवं सीमान्त आगम को परिभाषित कीजिए ।

   (b) सिद्ध कीजिए कि, $ed = \dfrac{AR}{AR - MR}$

4. Find the maxima and minima of the function $Z = x^3 + y^3 - 3x - 2yy + 8$.
   फलन $Z = x^3 + y^3 - 3x - 2yy + 8$ के चरम मान (Maxima and Minima) ज्ञात कीजिए ।

5. Integrate the following (समाकलन ज्ञात कीजिए) :—

   (a) $\int \sqrt{x} \left(x^{\frac{1}{3}} - 7x^{\frac{5}{2}} + 9x^{\frac{3}{2}} \right) dx$ (b) $\int x^4\, e^{x^2}\, dx$ (c) $\int x^2 e^x\, dx$

6. Define any three from the following :—
   निम्नलिखित में से किसी तीन को परिभाषित कीजिए :—
   (a) The objective function (उद्देश्य फलन)   (b) Feasible Solution (सम्भाव्य हल)
   (c) Optimum Solution (अनुकूलतम हल)   (d) Constraints (निबंध)

7. Find the dual of the following linear Primal Problem.
   निम्न रेखीय प्रायोजना समस्याओं का द्वैत ज्ञात कीजिए ।
   Minimize (न्यूनतम कीजिए), $Z = 15x_1 + 24x_2$
   जबकि, $3x_1 + 6x_2 \geq 2$
                    $5x_1 + 2x_2 \geq 1$
   तथा, $x_1,\ x_2 \geq 0$

8. Find the coefficient of correlation between x and y from the following data.
   निम्न समंक से x तथा y के मध्य सह–सम्बन्ध गुणांक ज्ञात कीजिए ।

x	10	20	30	40	50	60
y	4	8	10	20	34	12

9. In a box 16 good bulbs and 4 defective bulbs have been kept. If two bulbs are drawn at random, then what is probability that both the bulbs are good bulb.
   एक बक्से में 16 ठीक बल्ब तथा 4 खराब बल्ब रखे गये हैं । यदि बक्से से दो बल्ब यदृच्छया निकाले जायँ तो दोनों के ठीक निकलने की संभावना ज्ञात कीजिए ।

10. What do you mean by sampling ? Discuss various methods of sampling.
    निदर्शन से आप क्या समझते हैं ? निदर्शन की विभिन्न विधियों का वर्णन कीजिए ।

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Nalanda Open University Question Paper

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