NALANDA OPEN UNIVERSITY

M.A. [Economics] PART-L PAPER-III

(Quantitative Method)

Annual Examination, 2011

Full Marks: 80

Time: 3 Hours

किन्हीं पीच प्रश्नों के उत्तर दीजिए । सभी प्रश्नों के अंक समान है । Answer any Five Questions, All questions carry equal marks.

- Define Demand function and Production function. The second (aa)माँग फलन और उत्पादन फलन को परिनाषित कीजिए ।
 - Find the limit of any two:-((lib))

(ii)
$$\underline{L}_{x\to -} \sqrt{2} \times (\sqrt{x+5} - \sqrt{x})$$

(iii) $\underline{L}_{x\to -} \frac{e^x - e^{-x}}{x}$

(iv)
$$\underset{x\to 0}{L_{x}} \frac{\alpha^{x}-1}{x}$$

(iii) $\underset{t \to 1}{Lt} \frac{\sqrt{t} - 1}{3 \sqrt{t} - 1}$

Find $\frac{dy}{dx}$ if,

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

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

(b) ਵਿੱਲੜ ਕਰੀਵਿੰਦਾ ਕਿਨ,
$$ed = \frac{AR}{AR - MR}$$

- Find the maxima and minima of the function $Z = x^3 + y^3 = 3x 2yy + 8$. 4. फलन $Z = x^3 + y^3 - 3x - 2yy + 8$ के चरम मान (Maxima and Minima) ज्ञात कीजिए ।
- Integrate the following (समाकलन झात कीजिए) :-55.

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

(c)
$$\int x^2 e^x dx$$

- Define any three from the following: -66. निम्नरिर्शिक्त में से किन्धी तीन को परिभाषित कीजिए :-

 - The objective function (चहेश्य फलन)
 - (b) Feasible Solution (सम्माध्य ਫ਼ਰ)
 - Optimum Solution (अनुकलतम इल)
 - (d) Constraints (回報日)
 - Find the dual of the following linear Primal Problem. निम्न रेखीय प्रायोजना समस्याओं का द्वेत ज्ञात कीजिए ।

Minimize (न्यूनलम की जिए), $Z = 15x_1 + 24x_2$

$$3x_1 + 6x_2 \ge 2$$

 $5x_1 + 2x_2 \ge 1$

लथा,
$$x_{11} x_2 \ge 0$$

48. Find the coefficient of correlation between x and y from the following data.

band Whalled's A	A CHARLE	OUT TOWNS COLD	A STATE OF THE STA	THE ASSESSMENT OF THE PARTY OF		
200	10	20	30	4.0	50	60
V.	4	8	10	2.0	3-4	1.2

- In a box 16 good bulbs and 4 defective bulbs have been kept. If two bulbs are 9... drawn at random, then what is probability that both the bulbs are good bulb. एक बक्से में 16 ठीक बल्ब तथा व स्त्रराध बल्ब रखे गये हैं । यदि बक्से से दो बल्ब यदकला निकाले जाएँ तो दोनों के ठीक निकलने की संनावना ज्ञात कीजिए ।
- What do you mean by sampling? Discuss various methods of sampling. 1.0. निवर्शन से आप क्या समझते हैं ? निवर्शन की विभिन्न विधियों का वर्णन कीजिए ।

Nalanda Open University Question Paper 21

Brendan G. Carr

Nalanda Open University Question Paper 21:

The Top Books of the Year Nalanda Open University Ouestion Paper 21 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have captivated audiences this year. Nalanda Open University Question Paper 21: Colleen Hoovers "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best: Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Nalanda Open University Question Paper 21: Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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