

MATHEMATICS & STATISTICS

Time : 3 hrs.]

OCTOBER - 2013

[Marks : 80

SECTION - I

Q. 1. (A) Select and write the most appropriate answer from the given alternatives in each of the following sub-questions : [6]

(i) If $A = \{2, 3, 4, 5, 6\}$, then which of the following is 'not' true ?

(a) $\exists x \in A$ such that $x + 3 = 8$

(b) $\exists x \in A$ such that $x + 2 < 5$

(c) $\exists x \in A$ such that $x + 2 < 9$

(d) $\forall x \in A$ such that $x + 6 \geq 9$

(2)

(ii) If $2x + y = 0$ is one of the lines represented by $3x^2 + kxy + 2y^2 = 0$, then the value of k is _____.

(a) $\frac{1}{2}$

(b) $\frac{11}{2}$

(c) $\frac{5}{2}$

(d) $\frac{-11}{2}$

(2)

(iii) If a line is inclined at 60° and 30° with the X- and Y-axes respectively, then the angle which it makes with Z-axis is _____.

(a) 0

(b) $\frac{\pi}{4}$

(c) $\frac{\pi}{2}$

(d) $\frac{\pi}{6}$

(2)

Q. 1. (B) Attempt any THREE of the following:

[6]

(i) If $A = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$ and $AX = I$, then find X by elementary transformation.

(2)

(ii) With usual notations, in ΔABC , prove that $a(b \cos C - c \cos B) = b^2 - c^2$.

(2)

(iii) Show that the equation of a tangent to the circle $x^2 + y^2 = a^2$ at the point $P(x_1, y_1)$ on its axis is $xx_1 + yy_1 = a^2$.

(2)

(iv) Find k , if the line $2x - 3y + k = 0$ touches the ellipse $5x^2 + 9y^2 = 45$.

(2)

(v) Find the co-ordinates of the point, which divides the line segment joining the points $A(2, -6, 8)$ and $B(-1, 3, -4)$, externally in the ratio 1 : 3.

(2)

Q. 2. (A) Attempt any TWO of the following:

[6]

(i) Using truth table, prove that $\sim p \wedge q = (p \vee q) \wedge \sim p$.

(3)

(ii) Find the values of p and q , if the following equation represents a pair of perpendicular lines : $px^2 - 8xy + 3y^2 + 14x + 2y + q = 0$.

(3)

(iii) Find the equations of tangents to the parabola $y^2 = 12x$ from the point $(2, 5)$.

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Bill Ferster



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The Education Invasion Joy Pullmann, 2017-03-14 Most Americans had no idea what Common Core was in 2013 according to polls But it had been creeping into schools nationwide over the previous three years and children were feeling its effects They cried over math homework so mystifying their parents could not help them even in elementary school They read motley assortments of informational text instead of classic literature They dreaded the high stakes tests in unfamiliar formats that were increasingly controlling their classrooms How did this latest and most sweeping reform of American education come in mostly under the radar Joy Pullmann started tugging on a thread of reports from worried parents and frustrated teachers and it led to a big tangle of history and politics intrigue and arrogance She unwound it to discover how a cabal of private foundation honchos and unelected public officials cooked up a set of rules for what American children must learn in core K 12 classes and how the Obama administration pressured states to adopt them Thus a federalized education scheme took root despite legal prohibitions against federal involvement in curriculum Common Core and its testing regime were touted as an absolute game changer in public education yet the evidence so far suggests that kids are actually learning less under it Why then was such a costly and disruptive agenda imposed on the nation's schools Who benefits And how can citizens regain local self governance in education so their children's minds will be fed a more nourishing intellectual diet and be protected from the experiments of emboldened bureaucrats The Education Invasion offers answers and remedies

Algorithms and Complexity Tiziana Calamoneri, Federico Corò, 2021-05-04 This book constitutes the refereed conference proceedings of the 12th International Conference on Algorithms and Complexity CIAC 2019 held as a virtual event in May 2021 The 28 full papers presented together with one invited lecture and 2 two abstracts of invited lectures were carefully reviewed and selected from 78 submissions The International Conference on Algorithms and Complexity is intended to provide a forum for researchers working in all aspects of computational complexity and the use design analysis and experimentation of efficient algorithms and data structures The papers present original research in the theory and applications of algorithms and computational complexity Due to the Corona pandemic the conference was held virtually

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Handbook Of Applied Investment Research John B Guerard Jr, William T Ziemba, 2020-10-02 This book introduces the readers to the rapidly growing literature and latest results on financial fundamental and seasonal anomalies stock selection modeling and portfolio management Fifty years ago finance professors taught the Efficient Markets Hypothesis which states that the average investor could not outperform the stock market based on technical seasonal and fundamental data Many if not most faculty and investors no longer share that opinion In this book the authors report original empirical evidence that applied investment research can produce statistically significant stock selection and excess portfolio returns in the US and larger excess returns in international and emerging markets

Engineering for Sustainable Development International Centre for Engineering Education, UNESCO, 2021-03-02 The report highlights the crucial role of engineering in achieving each of the 17 SDGs It shows how equal opportunities for all is key to ensuring an inclusive and gender balanced profession that can better respond to the shortage of engineers for implementing the SDGs It provides a snapshot of the engineering innovations that are shaping our world especially emerging technologies such as big data and AI which are crucial for addressing the pressing challenges facing humankind and the planet It analyses the transformation of engineering education and capacity building at the dawn of the Fourth Industrial Revolution that will enable engineers to tackle the challenges ahead It highlights the global effort needed to address the specific regional disparities while summarizing the trends of engineering across the different regions of the world

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Sage on the Screen Bill Ferster, 2016-11-15 A critical look at the success of film video television and the Internet in education Since the days of Thomas Edison technology has held the promise of lowering the cost of education The fantasy of leveraging a fixed

production cost to reach an unlimited number of consumers is an enticing economic proposition one that has been repeatedly attempted with each new media format from radio and television to MOOCs where star academics make online video lectures available to millions of students at little cost In *Sage on the Screen* Bill Ferster explores the historical theoretical and practical perspectives of using broadcast media to teach by examining a century of efforts to use it at home and in the classroom Along the way he shares stories from teachers administrators entrepreneurs and innovators who promoted the use of cutting edge technology while critically evaluating their motives for doing so Taking a close look at the origins of various media forms their interrelatedness and their impact on education thus far Ferster asks why broadcast media has been so much more successful at entertaining people than it has been at educating them Accessibly written and full of explanatory art *Sage on the Screen* offers fresh insight into the current and future uses of instructional technology from K12 through non institutionally based learning

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