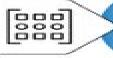


ম্যাট্রিক্স ও নির্ণায়ক

Matrices and Determinants





Board Ouestions Analysis

नुकारकीय शहर

नान प	see	मतपनिहरू	त्रासनाद्य	कृषिद्धा	বংশার	PBook	বরিশাল	Picel	निनासन्तर
2020	- 4.		- 2	- 2	>	- 4	2	- 3.	>
2022	- 4		4.	>	- 2	4	>	- 2	- >

প্ৰকৃতিপতিনি প্ৰস্থা

त्यार्थ भाग	wint	मग्रमनिवद	प्राचनारी	कृषिका	गरनास	PROPER	বরিশাল	Pront	जिन्छक्षानुस
20-20	4	· · ·			- 1		- 0		· ·
2022	0	· · ·		- 0	- 6	.0	6	•	

বিগত সালে বোর্ডে আসা সুজনশীল প্রশ্ন

5 । भूग्याबक्क-5:
$$x + y + z = 1$$
 [som cent 'act] $x + 2y + z = 2$ $x + y + 2z = 0$

$$\frac{p-q-r}{2}$$
 p p
 $\frac{p-q-r}{2}$ p p
 $\frac{q-r-p}{2}$ q
 $\frac{q-r-p}{2}$ q
 $\frac{r-p-q}{2}$

- (ব) দৃশ্যবল্প-১: এ উল্লিখিক সমীবকণ জোট নির্থারকের সাহাযো
- (গ) দৃশ্যবস্ত-২: থেকে প্রমাণ কর যে, $D = S^1$, থেকালে S = p + q + r

मामामान:

(46) CHOST WITH,
$$A = \begin{bmatrix} 1 & 2 & 3 \end{bmatrix}$$
 AND $B = \begin{bmatrix} 3 & 2 & 2 \\ 1 & 1 \end{bmatrix}$

$$AB = \begin{bmatrix} 1 & 2 & 3 \end{bmatrix} \begin{bmatrix} 3 \\ 2 \\ 1 \end{bmatrix} = \begin{bmatrix} 3 + 4 + 3 \end{bmatrix} = \begin{bmatrix} 10 \end{bmatrix}$$

- $\therefore (AB)^{i} = [10]^{i} = [10] (Ans.)$
- (ব) বেধরা সামে, x + y + z = 1x + 2y + z = 2x + y + 2z = 0

v ও x এর সহগওলো নিরে গরিত নির্বারত,

$$D = \begin{bmatrix} 1 & 1 & 1 \\ 1 & 2 & 1 \\ 1 & 1 & 2 \end{bmatrix}$$

$$= 1(4-1) - 1(2-1) + 1(1-2)$$

$$= 1 \neq 0$$

$$\begin{aligned} \mathbf{G} \otimes \mathbf{F}, \, \mathbf{D}_{k} &= \, \begin{vmatrix} 1 & 1 & 1 \\ 2 & 2 & 1 \\ 0 & 1 & 2 \end{vmatrix} \\ &= 1(4-1)-1(4-0)+1(2-0) \\ &= 1 \\ \mathbf{D}_{y} &= \, \begin{vmatrix} 1 & 1 & 1 \\ 1 & 2 & 1 \\ 1 & 0 & 2 \end{vmatrix} \\ &= 1(4-0)-1(2-1)+1(0-2) \\ &= 1 \\ \mathbf{D}_{z} &= \, \begin{vmatrix} 1 & 1 & 1 \\ 1 & 2 & 2 \\ 1 & 1 & 0 \end{vmatrix} \\ &= 1(0-2)-1(0-2)+1(1-2) \\ &= -1 \\ &: \, \mathbf{x} &= \, \frac{\mathbf{D}_{k}}{\mathbf{D}} &= \, \frac{1}{1} &= 1 \\ \mathbf{y} &= \, \frac{\mathbf{D}_{k}}{\mathbf{D}} &= \, \frac{1}{1} &= 1 \\ &= \frac{\mathbf{D}_{k}}{\mathbf{D}} &= \, \frac{1}{1} &= 1 \end{aligned}$$

্ৰ পিহুৰ্বত সমাধান: (x, v, z) = (1, 1, -1) (Ans.)

(vi)
$$D = 8$$

$$\begin{vmatrix}
p - q - r & p & p \\
q & q - r - p & q \\
r & r & r - p - q
\end{vmatrix}$$

$$= 8 \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$$

$$\begin{vmatrix}
p - q - r & 2p & 2p \\
2q & q - r - p & 2q \\
2r & 2r & r - p - q \\
2r & 2r & r - p - q
\end{vmatrix}$$

$$= 8 \times \frac{1}{2}$$

$$\begin{vmatrix}
p + q + r & p + q + r & p + q + r \\
2q & q - r - p & 2q
\end{vmatrix}$$

$$= 8 \times \frac{1}{8} \begin{vmatrix} p + q + r & p + q + r & p + q + r \\ 2q & q - r - p & 2q \\ 2r & 2r & r - p - q \\ |r_1| = r_1 + r_2 + r_3|$$

Math Hsc Target Matrices

Nicola Bellomo, Carlo Bianca

Math Hsc Target Matrices:

Towards a Mathematical Theory of Complex Biological Systems Carlo Bianca, Concetta Bianca, N. Bellomo, 2011 This monograph has the ambitious aim of developing a mathematical theory of complex biological systems with special attention to the phenomena of ageing degeneration and repair of biological tissues under individual self repair actions that may have good potential in medical therapy The approach to mathematically modeling biological systems needs to tackle the additional difficulties generated by the peculiarities of living matter. These include the lack of invariance principles abilities to express strategies for individual fitness heterogeneous behaviors competition up to proliferative and or destructive actions mutations learning ability evolution and many others Applied mathematicians in the field of living systems especially biological systems will appreciate the special class of integro differential equations offered here for modeling at the molecular celular and tissue scales A unique perspective is also presented with a number of case studies in biological modeling Mathematical Theory Of Complex Biological Systems Nicola Bellomo, Carlo Bianca, 2011-01-12 This monograph has the ambitious aim of developing a mathematical theory of complex biological systems with special attention to the phenomena of ageing degeneration and repair of biological tissues under individual self repair actions that may have good potential in medical therapy The approach to mathematically modeling biological systems needs to tackle the additional difficulties generated by the peculiarities of living matter These include the lack of invariance principles abilities to express strategies for individual fitness heterogeneous behaviors competition up to proliferative and or destructive actions mutations learning ability evolution and many others Applied mathematicians in the field of living systems especially biological systems will appreciate the special class of integro differential equations offered here for modeling at the molecular cellular and tissue scales A unique perspective is also presented with a number of case studies in biological modeling Mathematical Reviews .1991 A Systems Biology Approach to Blood Seth Joel Corey, Marek Kimmel, Joshua N. Leonard, 2014-12-06 The blood system is multi-scale from the organism to the organs to cells to intracellular signaling pathways to macromolecule interactions Blood consists of circulating cells cellular fragments platelets and microparticles and plasma macromolecules Blood cells and their fragments result from a highly ordered process hematopoiesis Definitive hematopoiesis occurs in the bone marrow where pluripotential stem cells give rise to multiple lineages of highly specialized cells Highly productive and continuously regenerative hematopoiesis requires a microenvironment of mesenchymal cells and blood vessels A Systems Biology Approach to Blood is divided into three main sections basic components physiological processes and clinical applications Using blood as a window one can study health and disease through this unique tool box with reactive biological fluids that mirrors the prevailing hemodynamics of the vessel walls and the various blood cell types Many blood diseases rare and common can and have been exploited using systems biology approaches with successful results and therefore ideal models for systems medicine More importantly hematopoiesis offers one of the best studied systems with insight into stem

cell biology cellular interaction development linage programing and reprograming that are every day influenced by the most mature and understood regulatory networks The Australian Mathematics Teacher ,1987 **Biomimetic Materials** And Design Angela Dillow, Anthony Lowman, 2002-08-28 Detailing techniques in wound healing and reconstruction this reference describes the mechanisms and architecture of biological systems to formulate and design natural and synthetic compounds degradable and non degradable scaffolds and targeted drug delivery devices It offers strategies to control adhesive interactions elicit specific cellular responses and improve the biocompatibility performance and durability of prosthetic materials Covering advances in the field the book discusses the effect of topographical features on cell behaviors such as orientation adhesion migration proliferation and differentation Precision agriculture '23 John V. Stafford, 2023-08-14 Precision agriculture is a reality in agriculture and is playing a key role as the industry comes to terms with the environment market forces quality requirements traceability vehicle guidance and crop management Sensors now in use in agriculture are generating Big Data leading to the use of machine learning and AI an increasing challenge for agriculture Research continues to be necessary and needs to be reported and disseminated to a wide audience These edited proceedings contain peer reviewed papers presented at the 14th European Conference on Precision Agriculture held in Bologna Italy The papers reflect the wide range of disciplines that impinge on precision agriculture technology crop science soil science agronomy information technology decision support remote sensing data analysis and others The broad range of research topics reported will be a valuable resource for researchers advisors teachers and professionals in agriculture long Energy Research Abstracts ,1983 after the conference has finished Science Abstracts ,1993 **Comprehensive Dissertation Index** .1984 International Aerospace Abstracts ,1992 **Government Reports Announcements** ,1975-05-30 **AMSTAT News** American Statistical Association, 2000 **Government Reports** Byte ,1987 Announcements & Index ,1994-05 Metals Abstracts Index ,1995 **Quality Concerns in Education** Manzoor Ahmad Bhat, 2006 Study on the quality of education in private and government schools of Anantnag District Aerospace **Medicine and Biology**, 1979 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA Science John Michels (Journalist), 2004 A weekly record of scientific progress Dissertation Abstracts International .1998

Reviewing Math Hsc Target Matrices: Unlocking the Spellbinding Force of Linguistics

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