

7. Explain the meaning of the following terms:

- (i) data bank,
- (ii) process control,
- (iii) parity,
- (iv) micro-program,
- (v) double-length working. (4 marks each)

8.

$$A = \begin{pmatrix} 0 & 2 & -1 \\ -3 & 1 & -2 \end{pmatrix}; \quad B = \begin{pmatrix} -2 & -2 & 1 \\ 0 & -1 & 3 \end{pmatrix}; \quad C = \begin{pmatrix} 2 & -3 \\ -1 & 4 \\ 0 & -1 \end{pmatrix}; \quad D = \begin{pmatrix} 0 & -1 \\ 4 & 0 \end{pmatrix}$$

Find:

(a) (i) $A - B$ (3 marks)

(ii) BC (4 marks)

(iii) $(D)^{-1}$ (5 marks)

(b) (i) Why is matrix manipulation so much used in programming? (4 marks)

(ii) Give two examples of the use of matrix manipulation to facilitate problem solving. (4 marks)

9. An invoice is to be prepared by a builder for sending to a client. The builder has used his own labour and that of a number of sub-contractors, e.g. for plumbing and electrical wiring. Each sub-contractor and the builder has incurred costs for labour and materials.

(a) (i) Prepare an invoice, using your own figures, under the heading of 'A. Bloggs & Co.' in a typical invoice format, including all the items detailed above. (Marks will not be awarded or deducted for the correctness of prices of materials or costs of labour.) (10 marks)

(ii) State clearly how each item is dealt with by hand in the course of preparation of the invoice. (5 marks)

(b) If this invoice was to be prepared by a computer, what differences would be necessary in the handling of the data items used in part (a)? (5 marks)

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voice whose prodigious talent propelled him to international stardom Before he was sixteen he had already sold more than six million records and had become a fixture on television and radio He has worked alongside such greats as Leonard Bernstein Andrew Lloyd Webber Sir Neville Marriner Howard Blake and Mike Oldfield Some of the high points of his early career include performances at the Hollywood Bowl and the wedding of Bob Geldof and Paula Yates as well as singing privately for the Prince and Princess of Wales Best known as a boy soprano for his hit Walking in the Air Aled tells the full story of this phenomenal record and the effect it had on his life Always refreshingly honest and self effacing Aled reveals how he faced up to life after his voice had broken and how he carved out a new career for himself on stage record television and radio His story begins with his idyllic childhood on the Welsh island of Anglesey and his years as a chorister at Bangor Cathedral during which his family provided wonderful support and encouragement as he rose to fame He tells of his studies at the Royal Academy of Music and the Bristol Old Vic Theatre School and delves behind the scene of some of Britain s best know institutions such as Songs of Praise BBC Wales and Classic FM Aled reveals the truth about the man behind the music in this frank heartwarming and funny account of his life **Competition Science Vision** ,2001-03 Competition Science

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Feminism and 'The Schooling Scandal' Christine Skelton,Becky Francis,2009-01-13 Brings together feminist contributions from two generations of educational researchers to provide a comprehensive overview of contemporary research and theory emerging from second wave feminism and assesses their impact on pupils and teachers in today s schools and classrooms

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the schools were predominantly male preserves the major part of the book describes the social world and experiences of boys and school masters An important section of the book however discusses the introduction of girl pupils the experiences of female teachers and the way schoolmasters wives tend to be drawn into their husbands work Geoffrey Walford s conclusions about life in public schools differ considerably from traditional expectations At the same time he asks whether there really has been a public school revolution His book makes an important contribution to our knowledge of public schools to debates in the sociology of education and to the issues of abolishing or extending the independent sector

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