

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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web jan 22 2019 sometimes a look at a parts diagram will help clarify what section go where etc and it can aid working around the cooling system to find the source of the problem to be honest if you only have a trickle that does tend to lean towards a blockage elsewhere in the system air lock would slowly clear once the system is vented whereas a

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web coolant the engine cooling system is filled with a mixture of purified water and coolant additive at the factory this coolant must not be not changed the coolant level is monitored using the indicator light however you should occasionally check the

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