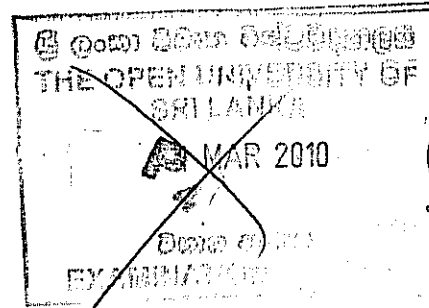


THE OPEN UNIVERSITY OF SRI LANKA
 FACULTY OF ENGINEERING TECHNOLOGY
 DIPLOMA IN TECHNOLOGY – LEVEL 02/03
 FINAL EXAMINATION 2009



MEX2230/MEX3211 – COMMUNICATING ENGINEERING INFORMATION

DATE : 11th MARCH 2010
 TIME : 1330.HRS – 1730 HRS
 DURATION : FOUR HOURS [04]

WRITE YOUR INDEX NUMBER CLEARLY



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READ THE FOLLOWING INSTRUCTIONS CAREFULLY BEFORE ANSWERING THE QUESTION PAPER

INSTRUCTIONS:

1. *This question paper consists of two sections PART A (5 questions) and PART B (4 questions).*
2. *Answer all questions. PART A will carry 60 marks and PART B 40 marks.*
3. *Spend at least two and a half (2½) hours for PART A and the rest for PART B.*
4. *Answers should be written or drawn within the space provided under each question in both PART A and PART B. No additional papers should be used for any answers.*
5. **Any answers given in separate sheets other than this question paper will not be taken for evaluation.**
6. *You may use drawing instruments (other than drawing board and T-ruler) at your discretion.*
7. *All sketches must be neatly drawn and proportional in sizes.*
8. *It is extremely important that you do not remove the question paper, or any part of the question paper, from the examination hall.*
9. *Remember to write your index number clearly in the space provided above. If you have not received an index number write your registration number in the space above. Do not write your NAME.*
10. *If you are in a doubt, consult the supervisor or an invigilator conducting the examination.*

(ii) Prefixes for decimal multiples.

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(iii) Axonometric views in sketching.

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(iv) Scatter diagrams.

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Question 02

Answer the questions given below.

- (a) Explain the main purpose of a laboratory report and prepare an outline that has to be followed when writing such a report.

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(b) What is the method of delivery that you would select to conduct the presentation? Justify your answer with reasons.

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(c) Assuming that you are using visuals in your presentation, explain the criteria that you would follow in order for the visuals to be effective in delivering the message.

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(b) Define skewness and kurtosis in relation to statistical analysis of data.

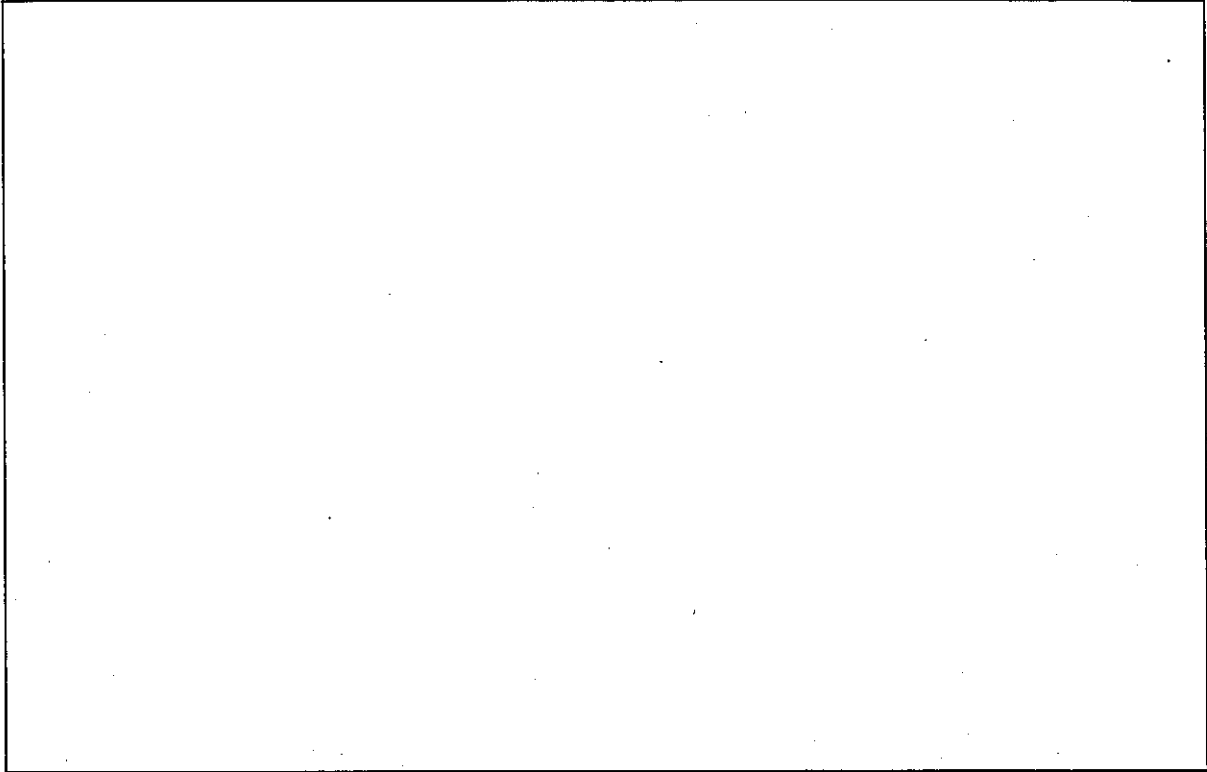
(c) Using a suitable numerical example, explain the terms 'Range' and 'Semi inter-quartile range' with respect to a set of data.

End of Part A

PART - B

Question 06

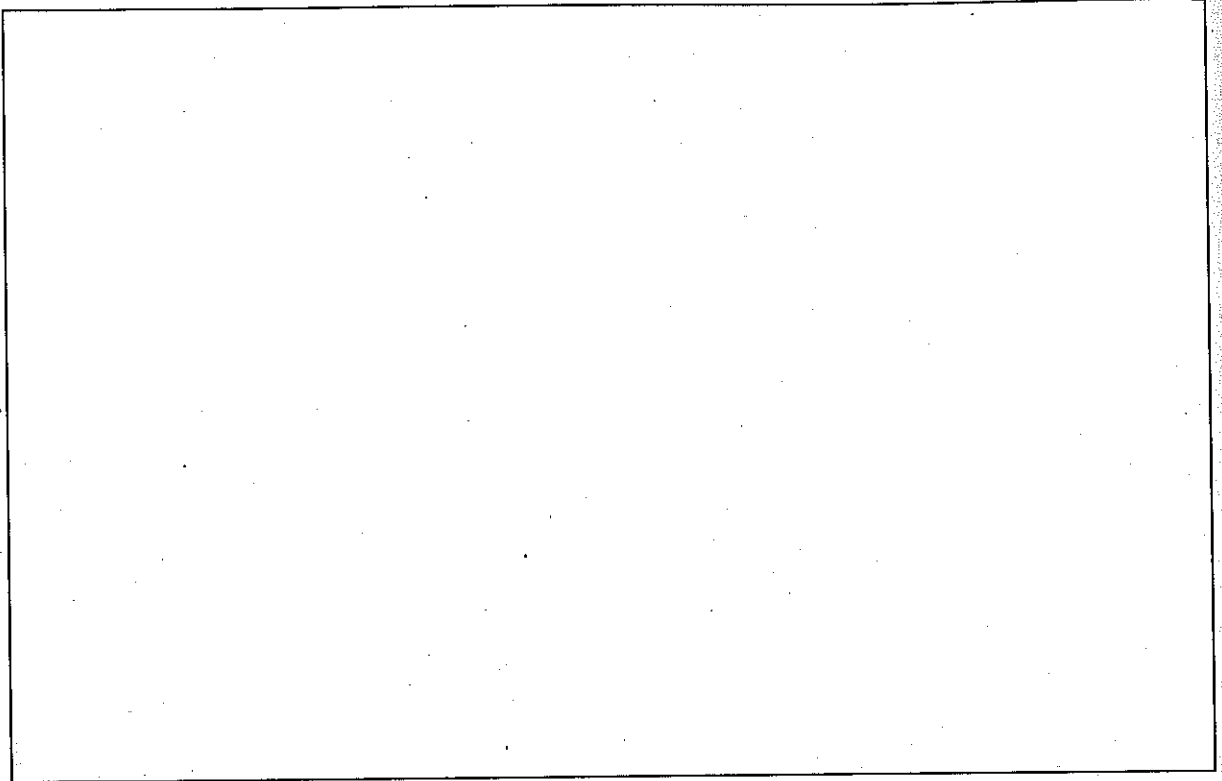
Explain with a sketch how a straight line of a given length is converted to an arc with the same length that of the straight line.



A series of horizontal dotted lines for writing the explanation.

Question 07

Explain with a sketch how to draw a circle which is externally tangential to given two circles.



A series of horizontal dotted lines for writing the explanation.

Question 08

Figure Q8 shows two orthographic views of an object in first angle projection. Sketch the isometric view of the object within the space given below taking the near points as shown by two arrows.

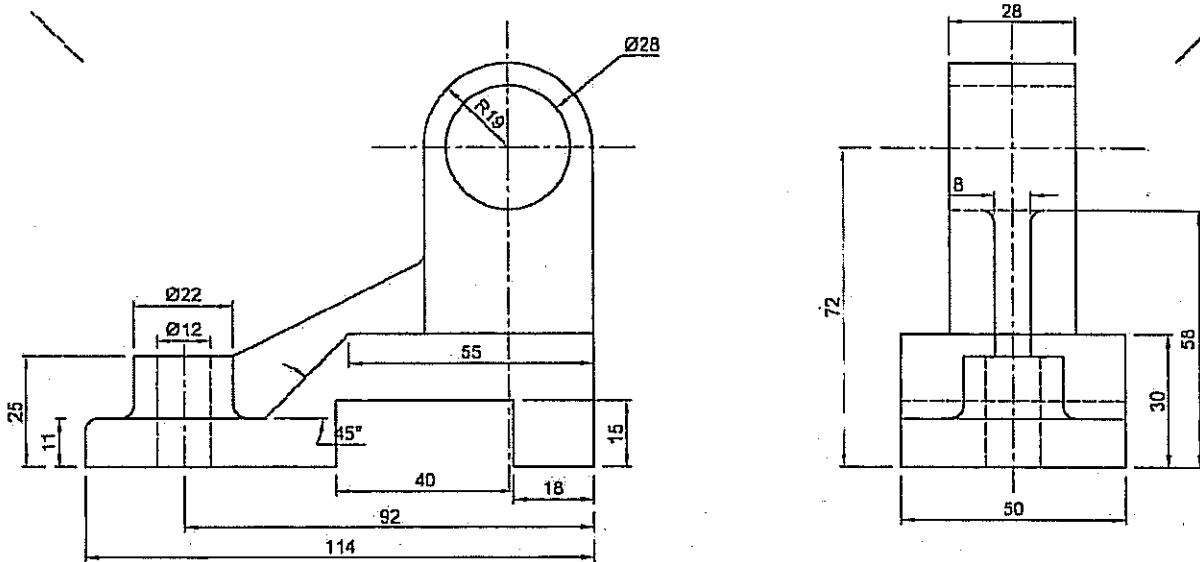
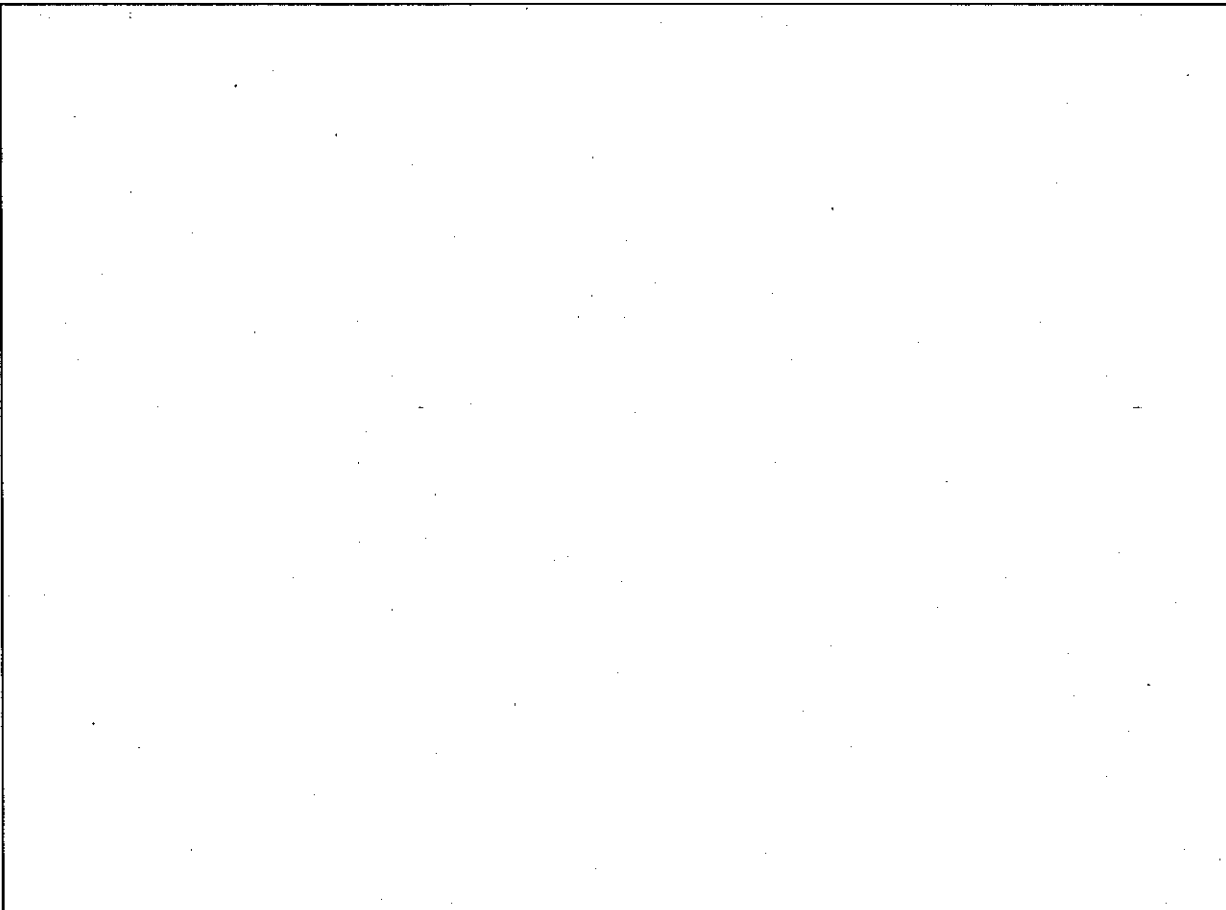
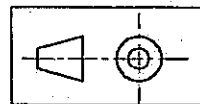


Figure Q8



Question 09

Figure Q9 shows an isometric view of an object. Sketch the following orthographic views within the space given below in first angle projection. (Assume any missing dimensions)

- (a) Front elevation looking in the direction of arrow "X"
- (b) End elevation projected to the left of view (a)
- (c) Plan projected from view (a)

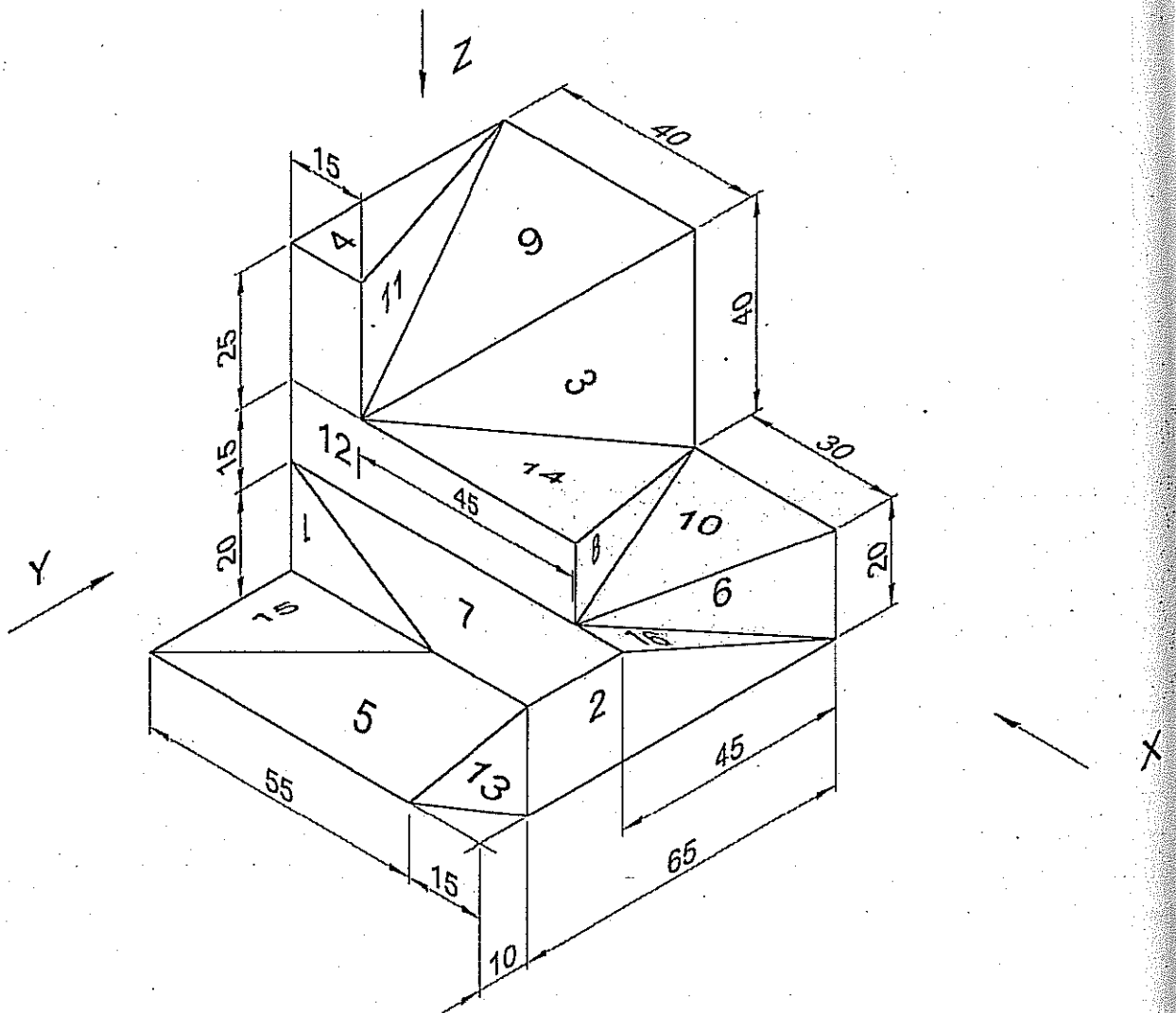
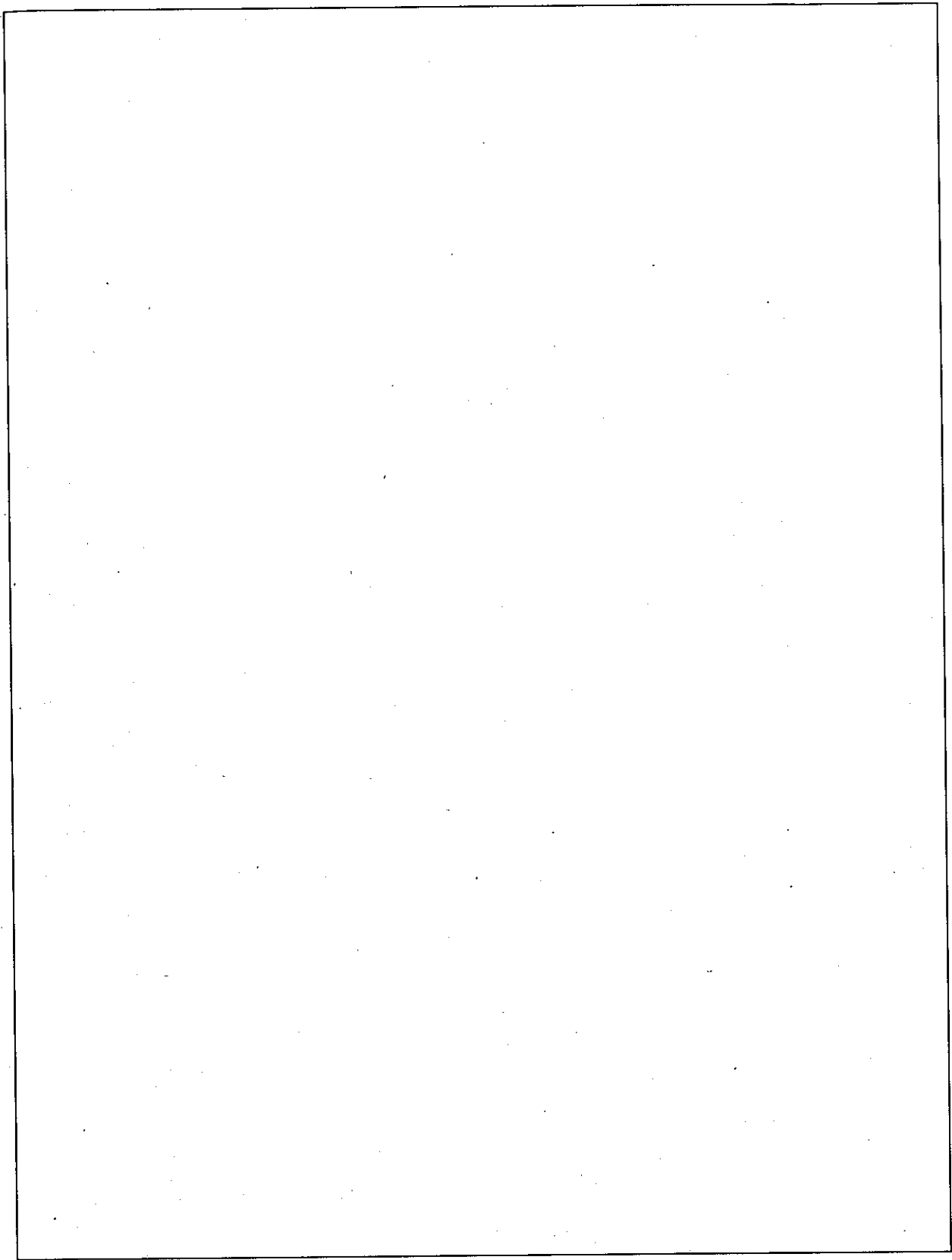


Figure Q9



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