General Instructions

- Reading time – 5 minutes
- Working time – 1 1/2 hours
- Write using black or blue pen
- Draw diagrams using pencil
- Board-approved calculators may be used
- Write your Centre Number and Student Number at the top of this page and pages 5, 9, 17 and 21

Total marks – 100

**Section I** Pages 2–13
60 marks
- Attempt Questions 1–3
- Allow about 55 minutes for this section

**Section II** Pages 17–23
40 marks
- Attempt Questions 4–5
- Allow about 35 minutes for this section
Section I

60 marks
Attempt Questions 1–3
Allow about 55 minutes for this section

Answer the questions in the spaces provided.

Question 1 (20 marks)

IND-TECH is a large company situated in the inner city, operating in the plastics industry specialising in high quality products and/or services. For a variety of reasons the company has decided to purchase and relocate to a new site, 200 km from its present inner city site.

(a) Identify TWO issues that may have influenced the decision to relocate.  
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(b) Outline TWO environmental responsibilities that must be dealt with when IND-TECH vacates the present site.  
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Question 1 continues on page 3
(c) Discuss TWO factors that IND-TECH should consider when choosing the alternative site.

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(d) Identify and describe TWO occupational health and safety (OHS) issues that IND-TECH would need to review/develop for the new workplace.

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Question 1 continues on page 4
(e) Explain the possible environmental and sociological effects on the community of IND-TECH’s relocation.
Question 2 (20 marks)

Management at IND-TECH has decided to upgrade the level of mechanisation as part of its relocation.

(a) Define the term *mechanisation*. 2

(b) Outline an aspect of IND-TECH’s operations that could be investigated for upgraded mechanisation. 2

Question 2 continues on page 6
Question 2 (continued)

(c) Describe TWO methods of evaluating the effects of upgraded mechanisation on IND-TECH’s operation.

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Question 2 (continued)

(e) Identify and analyse issues that could arise between management and workers as a result of upgraded levels of mechanisation.

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End of Question 2
Question 3 (20 marks)

Please turn over
Question 3 (20 marks)

(a) The following extract is from a draft report that was produced using computer software.

![Half-Yearly Production Report]

**Growth** in production is due to:
- Improved technology
- Better training
- Fewer accidents in the workplace
- Increased access to raw materials

(i) Name a computer software application that could have been used to produce this report.

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(ii) Identify FOUR formatting features that have been used in the production of this report.

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Question 3 continues on page 11
Question 3 (continued)

(iii) (1) Use the information from the production report to:
   • produce a graph that shows the monthly production rate (indicate the months on the horizontal axis);
   • graph the average monthly production rate (January–June).

(2) Assuming the production trend continues, indicate on the graph the predicted production rate for September 2003.

(b) Materials handling injuries make up 40% of workplace injuries. Describe a procedure IND-TECH could implement to communicate improved materials handling strategies to its employees.

Materials handling injuries make up 40% of workplace injuries. Describe a procedure IND-TECH could implement to communicate improved materials handling strategies to its employees.

Question 3 continues on page 12
(c) In its new location, IND-TECH has an opportunity to reorganise its production system to make use of increased mechanisation and to improve efficiency. Shown below is a plastic lunchbox manufactured by IND-TECH.

Based on your study of the plastics industry, use the space provided on page 13 to graphically represent the processes used to produce the lunchbox shown. In your answer you should:

• show the sequencing of the components and/or processes;
• name each piece of equipment used;
• state the process carried out with each piece of equipment;
• indicate where quality control would occur, and what would be checked.
Question 4 (20 marks)

(a) A plastics fabricating company is to manufacture a cover for the fluorescent advertising sign shown in the diagram.

(i) Suggest a suitable material for the plastic cover.  
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(ii) Identify a suitable moulding process that would produce the word IND-TECH as raised letters on the surface of a thin sheet of plastic.  
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Question 4 continues on page 18
Question 4 (continued)

(b) A boatbuilder has been commissioned to construct a one-off high performance sailing skiff using foam-sandwich construction that needs to be both lightweight and strong.

(i) Recommend a suitable resin for the skiff.  
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(ii) Identify and distinguish between suitable core materials that could be used in the manufacture of the skiff.  
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(iv) Describe the manufacture of the hull of the skiff using foam-sandwich construction, and outline the safe work practices that would need to be incorporated.

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End of Question 4
A sailboard is to be made from a thermoplastic material with a lightweight core.

(a)  (i) Identify a suitable polymer for the outside layer of the sailboard.  
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(ii) Identify a suitable polymer for the lightweight core.  
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(b) The outside layer and the core material have different properties. Compare the properties of the polymers you have identified in part (a).  
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Question 5 continues on page 22
Question 5 (continued)

(c) A metal mould is to be manufactured to make the outside layer of the sailboard. Outline the characteristics that need to be considered in the design of the mould.

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(d) The fins of the sailboard are to be produced separately and attached at a later stage. Describe a suitable process that could be used to manufacture the sailboard fins.

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Question 5 continues on page 23
(e) Identify and describe the steps in the process of manufacturing the sailboard.

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