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Centre Number

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Student Number

2005
HIGHER SCHOOL CERTIFICATE
EXAMINATION

Industrial Technology

Multimedia Industries

General Instructions

- Reading time – 5 minutes
- Working time – $1\frac{1}{2}$ 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, 13 and 17

Total marks – 100

Section I Pages 2–12

60 marks

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

Section II Pages 13–19

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.

Marks

IND-TECH is a company in the multimedia industry. The introduction of improved marketing strategies has increased demand for IND-TECH’s products. Management is aware that a planned restructure and expansion program will impact on IND-TECH’s production.

Question 1 (20 marks)

- (a) Greater demand for IND-TECH’s products can be met through increased production. **2**

Identify TWO ways in which increased production can be achieved.

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- (b) Identify a marketing strategy, and outline how this strategy could increase the demand for a product. **3**

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Question 1 continues on page 3

Question 1 (continued)

- (c) Define the term *quality control*. Explain how quality control can be used to improve IND-TECH's products. **4**

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- (d) IND-TECH's management is planning to restructure its workforce. **4**

Discuss how management will ensure stable industrial relations during this operation.

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Question 1 continues on page 4

Question 1 (continued)

- (e) Discuss the issues related to expanding IND-TECH in its present location rather than moving to a new location.

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End of Question 1

Industrial Technology
Multimedia Industries

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Centre Number

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Student Number

Section I (continued)

Marks

Question 2 (20 marks)

- (a) List TWO advantages of *multiskilling* in industry. **2**

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- (b) Explain an effect that specialisation could have on production and on the workforce. **3**

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Question 2 continues on page 6

Question 2 (continued)

- (c) Explain the term *sustainable development*, and recommend ways in which IND-TECH might make its operation more sustainable. 4

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- (d) Discuss the influence of occupational health and safety (OHS) legislation on production. 4

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Question 2 continues on page 7

Question 2 (continued)

(e) Before expanding or relocating, IND-TECH must prepare an Environmental Impact Statement (EIS). 7

Identify and discuss issues that could be covered in this statement.

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End of Question 2

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Industrial Technology
Multimedia Industries

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Student Number

Section I (continued)

Marks

Question 3 (20 marks)

- (a) Outline the purpose of a materials list in the planning or the production process. **2**

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- (b) Explain why shapes and colours are used in safety symbols. Use an example to support your answer. **3**

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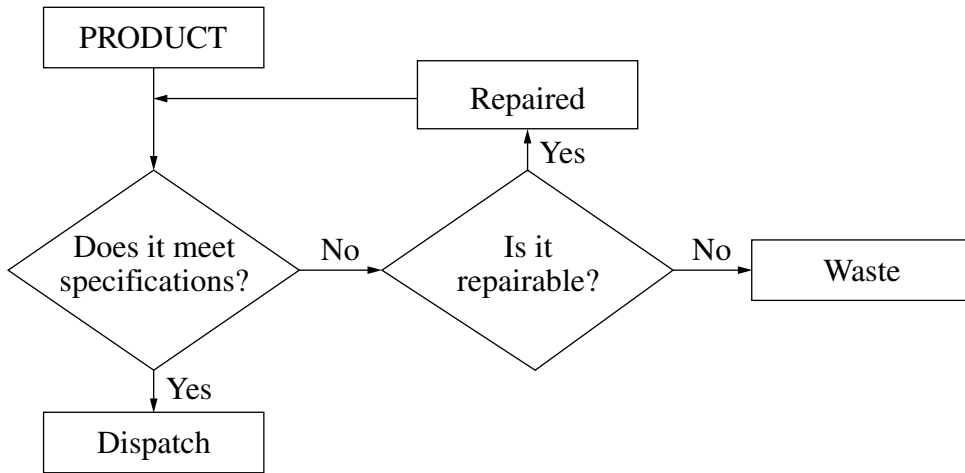
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Question 3 continues on page 10

Question 3 (continued)

(c) The diagram shows a process within a production system.

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Identify the type of diagram used. Explain why this type of diagram is suitable for representing the steps outlined in this production system.

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Question 3 continues on page 11

Question 3 (continued)

- (d) Outline the importance of function and aesthetics in the design of a product. **4**

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Question 3 continues on page 12

Industrial Technology Multimedia Industries

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Student Number

Section II

40 marks

Attempt Questions 4–5

Allow about 35 minutes for this section

Answer the questions in the spaces provided.

Marks

Question 4 (20 marks)

- (a) Identify TWO external digital storage devices suitable for a multimedia file. **2**

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- (b) Explain the effects of compression on audio files. **3**

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Question 4 continues on page 14

Question 4 (continued)

- (c) Describe the types of resources available on the World Wide Web that could be used in the development of a multimedia presentation. 4

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- (d) Identify TWO types of printers, and outline advantages of each. 4

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Question 4 continues on page 15

Question 4 (continued)

- (e) Difficulties can arise when downloading and displaying video clips from the World Wide Web. 7

Analyse hardware solutions and software solutions that can be used to overcome these difficulties.

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End of Question 4

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Student Number

Section II (continued)

Marks

Question 5 (20 marks)

- (a) Identify TWO differences between high-resolution and low-resolution graphic images. **2**

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- (b) Outline TWO characteristics of a paper suitable for enhancing the printing of high-resolution digital images. **3**

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Question 5 continues on page 18

Question 5 (continued)

- (c) Identify and outline the advantages of a video file format suitable for the presentation of a multimedia product. 4

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- (d) Discuss the role of storyboarding in the development of a website. 4

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Question 5 continues on page 19

Question 5 (continued)

(e) Define the term *copyright*. Explain how copyright issues could affect the development of a commercial multimedia presentation.

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