





1145-532 FEBRUARY 2018

Level 3 Advanced Technical Diploma in Engineering (540)/ Level 3 Advanced Technical Extended Diploma in Engineering (720)

Level 3 Engineering – Theory Exam (2)

If provided, stick your cand barcode label here.	idata	dnesday 28 February 2018 30 – 11:30		
Candidate name (first, last)				
First				
Last				
Candidate enrolment number Assessment date (DDMMYYYY)	Date of birth (DDMM Centre number	YYYY) Gender (M/F) Candidate signatur	e and declaration*	
 If any additional answer sheets are used, enter the additional number of pages in this box. Please ensure that you staple additional answer sheets to the back of this answer booklet, clearly labelling them with your full name, enrolment number, centre number and qualification number in BLOCK CAPITALS. All candidates need to use a black/blue pen. Do not use a pencil or gel pen. If provided with source documents, these documents will not be returned to City & Guilds, and will be shredded. Do not write on the source documents. *I declare that I had no prior knowledge of the questions in this assessment and that I will not divulge to any person any information about the questions 				

General instructions

- Use black or blue ballpoint pen.
- The marks for questions are shown in brackets.
- There are **six questions** in this examination paper. Answer **all** questions.
- Answer the questions in the spaces provided. Answers written in margins will **not** be marked.
- Cross through any work you do **not** want to be marked.
- Write all your working out and answers in this booklet.
- If extra space is required then the blank pages at the back of the pack should be used, clearly identifying the question.

a)

One of the issues a company has to deal with is health and safety in its UK premises. The main piece of legislation it will have to comply with is the Health and Safety at Work Act 1974.

Explain the main legal responsibilities of employees when working for a UK based company.			

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affects health and safety in the workplace.	(4 marks)
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Ma a)	terials used by a company may have to be cut before use. Name a thermal cutting process.	(1 mark
b)	Describe how the process named in a) is carried out.	(3 marks
		-

3

State four enablers that can drive the process of innovation.	(4 mar
Explain how innovation in domestic appliances can have a substantial impact	4-
on society.	(8 mar

and explain their importance.	(8)

a)	Describe the process of pyrolysis.	(4 marks)
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b)	Explain how the increased use of pyrolysis might affect the environment.	– (8 marks)
IJ)	Explain from the increased use of pyrolysis finglic affect the environment.	(O Marks)
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renewable energy sources and waste-to-energy systems. Discuss the influence of different stakeholders on the implementation of low carbon technologies.	(12 marks)

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