





## 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 (DDMMY Centre number	(YYYY) Gender (M/F)  Candidate signature	and declaration*
<ul> <li>If any additional answer sheets</li> <li>Please ensure that you staple booklet, clearly labelling them and qualification number in BLG</li> <li>All candidates need to use a blook of the provided with source docume and will be shredded. Do not will declare that I had no prior and that I will not divulge to</li> </ul>	additional answer sheel with your full name, enrounced CAPITALS. lack/blue pen. Do not ents, these documents write on the source docknowledge of the qu	ets to the <b>back</b> of this answer olment number, centre number tuse a pencil or gel pen.  will <b>not</b> be returned to City & Guments.  lestions in this assessment	uilds,

## **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 <b>main</b> legal responsibilities of <b>employees</b> when working for a UK based company.			

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affects health and safety in the workplace.	(4 marks)
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2

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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
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3

State <b>four</b> 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)

Add	ditiona	l space
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