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For the June 2019 Cambridge Technical  
exam series

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### Level 3 Applied Science

<p><b>05847, 05848, 05849, 05874, 05879</b></p>	<p><b>Unit 1: Science fundamentals</b></p>	<p>Question Paper</p>	<p>Q4(b), Fig. 4.1 (Image)</p> <p>Q5(c), Fig. 5.2 (Image)</p> <p>Q6, Fig. 6.1 (Image)</p>	<p>© Rattiya Thongdumhyu, Shutterstock Photo Library, <a href="http://www.shutterstock.com">www.shutterstock.com</a></p> <p>© Jacky Co, Shutterstock Photo Library, <a href="http://www.shutterstock.com">www.shutterstock.com</a></p> <p>Stress-strain graph taken from Metro Performance Glass Catalogue and Reference Guide 6th Edition, <a href="http://www.metroglass.co.nz">www.metroglass.co.nz</a>, Metro Performance Glass. Permission to reproduce all copyright material has been applied for. In some cases, efforts to contact copyright-holders have been unsuccessful and OCR will be happy to rectify any omissions of acknowledgements in future papers if notified.</p>
<p><b>05847, 05848, 05849, 05874, 05879</b></p>	<p><b>Unit 2: Laboratory techniques</b></p>	<p>Question Paper</p>	<p>Q5, Fig. 5.1</p>	<p>Department of Science and Computing, The North School, <a href="http://www.thenorthschool.org.uk">www.thenorthschool.org.uk</a>. Permission to reproduce all copyright material has been applied for. In some cases, efforts to contact copyright-holders have been unsuccessful and OCR will be happy to rectify any omissions of acknowledgements in future papers if notified.</p>

### Level 3 Applied Science (cont)

<p><b>05847, 05848, 05849, 05874, 05879</b></p>	<p><b>Unit 2: Laboratory techniques (cont)</b></p>	<p>Question Paper</p>	<p>Q6(a) Fig. 6.1 (Image)</p> <p>Q6(c), Fig 6.3 (Image)</p>	<p>Department of Veterinary Disease Biology 2011, Faculty of Health and Medical Sciences, <a href="http://www.atlas.sund.ku.dk">www.atlas.sund.ku.dk</a>, University of Copenhagen Denmark. Reproduced by permission of University of Copenhagen Denmark.</p> <p>Home Yard and Garden Pest Newsletter Issue 10, 24 June 2012, <a href="http://www.hygiene.ipm.illinois.edu">www.hygiene.ipm.illinois.edu</a>, University of Illinois. Permission to reproduce all copyright material has been applied for. In some cases, efforts to contact copyright-holders have been unsuccessful and OCR will be happy to rectify any omissions of acknowledgements in future papers if notified.</p>
<p><b>05847, 05848, 05849, 05874, 05879</b></p>	<p><b>Unit 3: Scientific analysis and reporting</b></p>	<p>Question Paper</p>	<p>Q3(b), Fig. 3.2 (Images 1 and 3)</p> <p>Q4, Fig. 4.1 (Image)</p>	<p>David Fenwick, <a href="http://www.aphotoflora.com">www.aphotoflora.com</a>. Reproduced by permission of David Fenwick.</p> <p>Simple Pendulum, <a href="http://demoweb.physics.ucla.edu">demoweb.physics.ucla.edu</a> UCLA Education. Reproduced with permission of UCLA Education.</p>

**Level 2 Business**

<b>Level 2 Business</b>				
<b>05891, 05892</b>	<b>Unit 1: Principles of working in business administration</b>	Computer Based Test		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05891, 05892</b>	<b>Unit 2: Understand the role of the administrator</b>	Computer Based Test		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.

### Level 3 Business

<b>05834, 05835, 05836, 05837, 05878</b>	<b>Unit 1: The business environment</b>	Question Paper/ Pre-release		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05834, 05835, 05836, 05837, 05878</b>	<b>Unit 2: Working in business</b>	Question Paper		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05834, 05835, 05836, 05837, 05878</b>	<b>Unit 3: Business decisions</b>	Pre-release/ Insert	Appendix 2 (Text)	Adapted from 'Warning of growing disrepair at leisure centres', <a href="http://www.yorkshirepost.co.uk">www.yorkshirepost.co.uk</a> , The Yorkshire Post, 28 October 2017. Reproduced by permission of The Yorkshire Post.
<b>05834, 05835, 05836, 05837, 05878</b>	<b>Unit 9: Human resources</b>	Question Paper	Q2(a), Fig. 1 (Graph)	Reproduced under the terms of Open Government Licence 3.0.
<b>05834, 05835, 05836, 05837, 05878</b>	<b>Unit 10: Economics for business</b>	Question Paper	Extract 1 (Graph)	Reproduced under the terms of Open Government Licence 3.0.
<b>05834, 05835, 05836, 05837, 05878</b>	<b>Unit 15: Change management</b>	Question Paper/ Resource Booklet		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.

**Level 2 Digital Media**

<b>05897, 05899</b>	<b>Unit 1: Digital media and emerging technologies</b>	Computer Based Test		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05897, 05899</b>	<b>Unit 2: Principles of concept design and pre-production</b>	Pre-release		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.



### Level 3 Digital Media

<b>05843, 05844, 05845, 05846, 05875</b>	<b>Unit 1: Media products and audiences</b>	Insert	Fig. 1, Fig. 2 (Text)  Fig. 3 (Text)	www.barb.co.uk, BARB (Broadcasters Audience Research Board), July 2018. Reproduced by permission of BARB.  www.abc.org.uk, ABC, June 2018. Reproduced by permission of ABC.
<b>05843, 05844, 05845, 05846, 05875</b>	<b>Unit 2: Pre-production and planning</b>	Question Paper/Insert		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05843, 05844, 05845, 05846, 05875</b>	<b>Unit 6: Social media and globalisation</b>	Question Paper		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05843, 05844, 05845, 05846, 05875</b>	<b>Unit 25: Research for product development</b>	Question Paper/ Pre-release		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.

## Level 2 Engineering

<b>05887, 05888</b>	<b>Unit 1: Fundamentals of mechanical, electrical/electronic and fluid power engineering</b>	Computer Based Test	Q24 (Image)  Q33 (Image)	© Fouad A. Saad, Shutterstock Photo Library, <a href="http://www.shutterstock.com">www.shutterstock.com</a>  © Oleksandr Kostiuchenko, Shutterstock Photo Library, <a href="http://www.shutterstock.com">www.shutterstock.com</a>
<b>05887, 05888</b>	<b>Unit 2: Application of engineering principles</b>	Computer Based Test		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.

### Level 3 Engineering

<b>05822, 05823, 05824, 05825, 05873</b>	<b>Unit 1: Mathematics for engineering</b>	Question Paper		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05822, 05823, 05824, 05825, 05873</b>	<b>Unit 2: Science for engineering</b>	Question Paper		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05822, 05823, 05824, 05825, 05873</b>	<b>Unit 3: Principles of mechanical engineering</b>	Question Paper		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05822, 05823, 05824, 05825, 05873</b>	<b>Unit 4: Principles of electrical and electronic engineering</b>	Question Paper	Q3 Fig. 7 (Image)	© Romanchuck Dmitry, Shutterstock Photo Library, <a href="http://www.shutterstock.com">www.shutterstock.com</a>
<b>05822, 05823, 05824, 05825, 05873</b>	<b>Unit 23: Applied mathematics for engineering</b>	Question Paper		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05822, 05823, 05824, 05825, 05873</b>	<b>Unit 24: Project management for engineers</b>	Question Paper		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.

## Level 2 Health & Social Care

<b>05880, 05881</b>	<b>Unit 1: Principles of working in health, social care and childcare</b>	Computer Based Test	Q8 (Image)	Reproduced under the terms of Creative Commons Attribution 2.0 Generic (CC BY 2.0).
<b>05880, 05881</b>	<b>Unit 2: Health and safety in practice</b>	Computer Based Test		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.

### Level 3 Health & Social Care

<b>05830, 05831, 05832, 05833, 05871</b>	<b>Unit 2: Equality, diversity and rights in health and social care</b>	Question Paper	Q2 (Text)	Adapted text 'Lola's Story', <a href="http://www.childline.org.uk">www.childline.org.uk</a> , Childline NSPCC, 7 March 2017. Permission to reproduce all copyright material has been applied for. In some cases, efforts to contact copyright-holders have been unsuccessful and OCR will be happy to rectify any omissions of acknowledgements in future papers if notified.
<b>05830, 05831, 05832, 05833, 05871</b>	<b>Unit 3: Health, safety and security in health and social care</b>	Question Paper		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05830, 05831, 05832, 05833, 05871</b>	<b>Unit 4: Anatomy and physiology for health and social care</b>	Question Paper		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05830, 05831, 05832, 05833, 05871</b>	<b>Unit 6: Personalisation and a person-centred approach to care</b>	Question Paper		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05830, 05831, 05832, 05833, 05871</b>	<b>Unit 7: Safeguarding</b>	Question Paper		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.

### Level 3 Health & Social Care (cont)

<b>Level 3 Health &amp; Social Care (cont)</b>				
<b>05830, 05831, 05832, 05833, 05871</b>	<b>Unit 25: Research methods in health, social care and childcare</b>	Pre-release	Source A	AAV5–Factor VIII Gene Transfer in Severe Hemophilia A, <a href="http://www.nejm.org">www.nejm.org</a> , The New England Journal of Medicine, 28 December 2017.
			Source B	The Daily Mile makes primary school children more active, less sedentary and improves their fitness and body composition: a quasi-experimental pilot study, <a href="http://www.bmcmedicine.biomedcentral.com">www.bmcmedicine.biomedcentral.com</a> , BMC Medicine, May 2018. Reproduced under the terms of the Creative Commons Attribution 4.0 International License.
			Source C	Impact of person-centred care training, Clive Ballard, Anne Corbett, Martin Orrell, Gareth Williams, Esme Moniz-Cook, Renee Romeo, Bob Woods, Lucy Garrod, Ingelin Testad, Barbara Woodward-Carlton, Jennifer Wenborn, Martin Knapp, Jane Fossey, <a href="http://www.journals.plos.org">www.journals.plos.org</a> , PLOS Medicine, 6 February 2018. Reproduced under the terms of the Creative Commons Attribution 4.0 International (CC BY 4.0).

**Level 2 IT**

<b>05883, 05884</b>	<b>Unit 1: Essentials of IT</b>	Computer Based Test	Q1 (Image)	© Microsoft
<b>05883, 05884</b>	<b>Unit 2: Essentials of Cyber Security</b>	Computer Based Test		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.

### Level 3 IT

<b>05838, 05839, 05840, 05841, 05842, 05877</b>	<b>Unit 1: Fundamentals of IT</b>	Question Paper		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05838, 05839, 05840, 05841, 05842, 05877</b>	<b>Unit 2: Global information</b>	Question Paper/ Pre-release		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05838, 05839, 05840, 05841, 05842, 05877</b>	<b>Unit 3: Cyber security</b>	Question Paper/ Pre-release		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05838, 05839, 05840, 05841, 05842, 05877</b>	<b>Unit CC: Cloud Technology</b>	Computer Based Test		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.



### Level 3 Performing Arts

<b>05850, 05851, 05852, 05853, 05876</b>	<b>Unit 1: Prepare to work in the performing arts sector</b>	Pre-release		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05850, 05851, 05852, 05853, 05876</b>	<b>Unit 2C: Proposal for a commissioning brief</b>	Pre-release		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05850, 05851, 05852, 05853, 05876</b>	<b>Unit 3: Influential performance practice</b>	Pre-release		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05850, 05851, 05852, 05853, 05876</b>	<b>Unit 32: Arts administration</b>	Question Paper		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05850, 05851, 05852, 05853, 05876</b>	<b>Unit 33: Original performance</b>	Pre-release	Performance Stimulus 1 (Image)	© Denis Kabelev, Shutterstock Photo Library, <a href="http://www.shutterstock.com">www.shutterstock.com</a>
		Pre-release	Performance Stimulus 2 (Quote)	“Life would be tragic if it weren’t funny.” Stephen Hawking. Reproduced under the terms of the Creative Commons Attribution-ShareAlike 3.0 Unported (CC BY-SA 3.0).

## Level 2 Sport

<b>05885, 05886</b>	<b>Unit 1: Physical activity, health and wellbeing</b>	Computer Based Test	Q35/36, Fig. 4 (Image)	Webpage from <a href="http://www.sportengland.org">www.sportengland.org</a> , November 2016-2017 © Sport England. Reproduced by permission of Sport England.
<b>05885, 05886</b>	<b>Unit 2: Physical preparation and readiness for sport and physical activity</b>	Computer Based Test		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.

### Level 3 Sport

<b>05826, 05827, 05828, 05829, 05872</b>	<b>Unit 1: Body systems and the effects of physical activity</b>	Question Paper	Q11, Fig. 11.1 (Image)  Q13, Fig. 13.1 (Image)  Q14, Fig. 14.1 (Image)  Q20, Fig. 20.1 (Image)	© Sebastian Kaulitzki, Shutterstock Photo Library, www.shutterstock.com  © Sebastian Kaulitzki, Shutterstock Photo Library, www.shutterstock.com  © VAZZEN, Shutterstock Photo Library, www.shutterstock.com  © Alexander P, Shutterstock Photo Library, www.shutterstock.com
<b>05826, 05827, 05828, 05829, 05872</b>	<b>Unit 3: Sports organisation and development</b>	Question Paper		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05826, 05827, 05828, 05829, 05872</b>	<b>Unit 4: Working safely in sport, exercise, health and leisure</b>	Question Paper		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.
<b>05826, 05827, 05828, 05829, 05872</b>	<b>Unit 21: The business of sport</b>	Question Paper		Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.

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