

Centre No.						Paper Reference	Surname	Initial(s)
Candidate No.						<b>E G 1 0 1 / 0 1</b>	Signature	

Paper Reference(s)

**EG101/01**

**Edexcel**

**Principal Learning**

**Engineering**

Level 1

Unit 1: Introducing the  
Engineering World

Sample Assessment Material

Time: 1 hour

Examiner's use only

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Team Leader's use only

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**Materials required for examination**

Nil

**Items included with question papers**

Nil

**Instructions to Candidates**

In the boxes above, write your centre number, candidate number, your surname, initials and signature. Check that you have the correct question paper.

Answer **ALL** the questions.

All questions must be answered with a cross in a box (☒).

Indicate which question you are answering by marking the box (☒).

If you change your mind about an answer, put a line through the box (☒) and then mark your new answer with a cross (☒).

Do not use pencil. Use blue or black ink.

**Information for Candidates**

The marks for individual questions and the parts of questions are shown in round brackets: e.g. (2).

There are 30 questions in this question paper. The total mark for this paper is 30.

There are 16 pages in this question paper. Any blank pages are indicated.

**Advice to Candidates**

You are advised to read the questions carefully.

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**Answer ALL questions.**

1. Apprenticeship schemes are funded by:

(i)	Trade Unions	<input type="checkbox"/>
(ii)	the government	<input type="checkbox"/>
(iii)	accountants	<input type="checkbox"/>
(iv)	the engineering council	<input type="checkbox"/>

Q1

(Total 1 mark)

2. A method of energy conservation used in engineering is:

(i)	recycling	<input type="checkbox"/>
(ii)	transporting goods by road	<input type="checkbox"/>
(iii)	increased productivity	<input type="checkbox"/>
(iv)	using fossil fuels	<input type="checkbox"/>

Q2

(Total 1 mark)



3. An engineering company that needs a workforce to have both practical skills and knowledge requires:

(i)	skilled workers	<input type="checkbox"/>
(ii)	semi-skilled workers	<input type="checkbox"/>
(iii)	unskilled workers	<input type="checkbox"/>
(iv)	operatives	<input type="checkbox"/>

(Total 1 mark)

Leave blank

Q3

4. An advantage of effective teamwork is:

(i)	ensuring everyone gets to do their preferred job	<input type="checkbox"/>
(ii)	achieving more than individuals working alone	<input type="checkbox"/>
(iii)	having fun	<input type="checkbox"/>
(iv)	making sure everyone works hard all the time	<input type="checkbox"/>

(Total 1 mark)

Q4



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5. An operative role would usually involve:

(i)	routine tasks	<input checked="" type="checkbox"/>
(ii)	managing budgets	<input checked="" type="checkbox"/>
(iii)	designing products	<input checked="" type="checkbox"/>
(iv)	leading a team	<input checked="" type="checkbox"/>

Q5

(Total 1 mark)

6. The purpose of the Kyoto Agreement is to:

(i)	prevent industrial accidents	<input checked="" type="checkbox"/>
(ii)	dispose of industrial waste properly	<input checked="" type="checkbox"/>
(iii)	reduce car usage	<input checked="" type="checkbox"/>
(iv)	reduce emission of greenhouse gases	<input checked="" type="checkbox"/>

Q6

(Total 1 mark)



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7. A renewable energy source is:

(i)	natural gas	<input type="checkbox"/>
(ii)	hydroelectric	<input type="checkbox"/>
(iii)	petroleum (oil)	<input type="checkbox"/>
(iv)	nuclear fuel	<input type="checkbox"/>

(Total 1 mark)

Q7

8. One of the best ways of disposing of radioactive waste is currently considered to be:

(i)	sinking it in the ocean	<input type="checkbox"/>
(ii)	firing it into space	<input type="checkbox"/>
(iii)	burying it deep under ground	<input type="checkbox"/>
(iv)	burning it	<input type="checkbox"/>

(Total 1 mark)

Q8



Leave blank

9. A floating barrier that can be put around an oil spill to contain it is called a:

(i)	boom	<input checked="" type="checkbox"/>
(ii)	dam	<input checked="" type="checkbox"/>
(iii)	hull	<input checked="" type="checkbox"/>
(iv)	footing	<input checked="" type="checkbox"/>

(Total 1 mark)

Q9

10. Rechargeable batteries are an example of an engineered product that is:

(i)	modern	<input checked="" type="checkbox"/>
(ii)	reusable	<input checked="" type="checkbox"/>
(iii)	obsolete	<input checked="" type="checkbox"/>
(iv)	recyclable	<input checked="" type="checkbox"/>

(Total 1 mark)

Q10



Leave  
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11. Engineered products are bought and sold all over the world. This is called:

(i)	industrialisation	<input type="checkbox"/>
(ii)	global warming	<input type="checkbox"/>
(iii)	a business trend	<input type="checkbox"/>
(iv)	the global marketplace	<input type="checkbox"/>

Q11

(Total 1 mark)

12. The companies that supply water, gas and electricity to our homes are called the:

(i)	national grid	<input type="checkbox"/>
(ii)	network	<input type="checkbox"/>
(iii)	utility companies	<input type="checkbox"/>
(iv)	essential companies	<input type="checkbox"/>

Q12

(Total 1 mark)



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13. The pharmaceutical industry develops medicines and medical products. The sector they belong to is the:

(i)	control sector	<input type="checkbox"/>
(ii)	electronic sector	<input type="checkbox"/>
(iii)	engineering sector	<input type="checkbox"/>
(iv)	chemical sector	<input type="checkbox"/>

Q13

(Total 1 mark)

14. To ensure engineering products are effective in use and perform as expected, all sectors must carry out:

(i)	marketing	<input type="checkbox"/>
(ii)	testing	<input type="checkbox"/>
(iii)	manufacturing	<input type="checkbox"/>
(iv)	training	<input type="checkbox"/>

Q14

(Total 1 mark)





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15. Plumbing and electrical work in buildings is controlled by the:

(i)	building services sector	<input checked="" type="checkbox"/>
(ii)	construction sector	<input checked="" type="checkbox"/>
(iii)	engineering sector	<input checked="" type="checkbox"/>
(iv)	communications sector	<input checked="" type="checkbox"/>

Q15

(Total 1 mark)

16. One example of current environmental legislation is the:

(i)	Control of Substances Hazardous to Health Regulations	<input checked="" type="checkbox"/>
(ii)	Greenhouse Gas Act	<input checked="" type="checkbox"/>
(iii)	Provision and Use of Work Equipment Regulations	<input checked="" type="checkbox"/>
(iv)	Clean Air Act	<input checked="" type="checkbox"/>

Q16

(Total 1 mark)



Leave blank

17. A reduction in energy use can be achieved by organisations through:

(i)	quality control procedures	<input checked="" type="checkbox"/>
(ii)	a risk assessment	<input checked="" type="checkbox"/>
(iii)	reactive maintenance	<input checked="" type="checkbox"/>
(iv)	lean manufacturing systems	<input checked="" type="checkbox"/>

Q17

(Total 1 mark)

18. The automotive sector is mainly concerned with:

(i)	the manufacture of robotic systems	<input checked="" type="checkbox"/>
(ii)	support services	<input checked="" type="checkbox"/>
(iii)	the manufacture of cars	<input checked="" type="checkbox"/>
(iv)	passenger transport	<input checked="" type="checkbox"/>

Q18

(Total 1 mark)



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19. Train and bus manufacture are the responsibility of the:

(i)	passenger transport sector	<input type="checkbox"/>
(ii)	road and rail sector	<input type="checkbox"/>
(iii)	department of the roads	<input type="checkbox"/>
(iv)	department of the rails	<input type="checkbox"/>

Q19

(Total 1 mark)

20. The sector that includes shipping is the:

(i)	transport sector	<input type="checkbox"/>
(ii)	marine sector	<input type="checkbox"/>
(iii)	automotive sector	<input type="checkbox"/>
(iv)	ocean sector	<input type="checkbox"/>

Q20

(Total 1 mark)



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21. The fact that people live longer today is mainly due to:

(i)	more foreign holidays	<input type="checkbox"/>
(ii)	developments in housing	<input type="checkbox"/>
(iii)	better cars	<input type="checkbox"/>
(iv)	developments in healthcare	<input type="checkbox"/>

Q21

(Total 1 mark)

22. The term 'people are more mobile' is often used to describe:

(i)	improved transport	<input type="checkbox"/>
(ii)	improved movement	<input type="checkbox"/>
(iii)	improved health	<input type="checkbox"/>
(iv)	improved housing	<input type="checkbox"/>

Q22

(Total 1 mark)



23. The acronym GPS stands for:

(i)	ground positioning satellite	<input type="checkbox"/>
(ii)	general polarity system	<input type="checkbox"/>
(iii)	global positioning system	<input type="checkbox"/>
(iv)	general programmable satellite	<input type="checkbox"/>

(Total 1 mark)

Leave blank

Q23

24. The internet connection system that provides the fastest connection and downloads is:

(i)	ADSL	<input type="checkbox"/>
(ii)	Broadband	<input type="checkbox"/>
(iii)	ISDN	<input type="checkbox"/>
(iv)	Dial-up	<input type="checkbox"/>

(Total 1 mark)

Q24



Leave blank

25. The software most commonly used to produce presentations is:

(i)	PowerPoint	<input type="checkbox"/>
(ii)	Word	<input type="checkbox"/>
(iii)	Excel	<input type="checkbox"/>
(iv)	Dreamweaver	<input type="checkbox"/>

Q25

(Total 1 mark)

26. A plastic material that can be recycled many times must be:

(i)	soft	<input type="checkbox"/>
(ii)	thermoset	<input type="checkbox"/>
(iii)	light	<input type="checkbox"/>
(iv)	thermoplastic	<input type="checkbox"/>

Q26

(Total 1 mark)



Leave  
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27. Recent developments in internet banking have allowed people to:

(i)	feel safe about banking	<input type="checkbox"/>
(ii)	save more money	<input type="checkbox"/>
(iii)	access their accounts from home	<input type="checkbox"/>
(iv)	borrow more money	<input type="checkbox"/>

Q27

(Total 1 mark)

28. Wooden products should be made from wood that has come from forests that are:

(i)	sustainable	<input type="checkbox"/>
(ii)	tropical	<input type="checkbox"/>
(iii)	endangered	<input type="checkbox"/>
(iv)	large	<input type="checkbox"/>

Q28

(Total 1 mark)



Leave  
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29. The fact that people now live longer has a direct effect on:

(i)	the effectiveness of public transport	<input type="checkbox"/>
(ii)	what houses are made from	<input type="checkbox"/>
(iii)	exhaust fumes	<input type="checkbox"/>
(iv)	the cost of pensions	<input type="checkbox"/>

Q29

(Total 1 mark)

30. Recent developments in mobile phone technology has meant that:

(i)	phones are now waterproof	<input type="checkbox"/>
(ii)	phones are harder to get	<input type="checkbox"/>
(iii)	phones are now multi-functional	<input type="checkbox"/>
(iv)	phones are now bigger	<input type="checkbox"/>

Q30

(Total 1 mark)

**TOTAL FOR PAPER: 30 MARKS**

**END**

