ENGLAND GCSE DESIGN AND TECHNOLOGY EDEXCEL · UNIT 3 · 25 QUESTIONS

Material Categories — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **A wooden chair has a woven fabric seat. What is a woven fabric?**

- A. A fabric made by bonding fibres together
- B. A fabric made from a single sheet of plastic, in some situations
- C. A fabric made by looping yarns together
- D. A fabric made by interlacing warp and weft yarns

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2 **A hammer is used to shape a piece of copper. Why is copper used for electrical wiring?**

- A. It is an excellent conductor of electricity
- B. It is magnetic and very hard
- C. It is a poor conductor of electricity, in some situations
- D. It melts at a very low temperature

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3 **A backpack has a felt pocket inside. What is felt?**

- A A synthetic fabric made from oil
- B A woven fabric made from cotton yarn
- C A knitted fabric made from wool yarn, in some situations
- D A non woven fabric made by bonding wool fibres together

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4 **An electric kettle body is made from stainless steel. What is stainless steel?**

- A Steel with copper added so it conducts well, in some situations
- B Steel with zinc added so it is magnetic
- C Steel with no alloying elements at all
- D Steel with chromium added so it resists rust

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5 **A cordless drill makes a hole in a sheet of ABS. What is ABS used for?**

- **A** Tough moulded cases such as Lego bricks and vacuum cleaner bodies
- **B** Flexible carrier bags
- **C** Heat resistant saucepan handles, which is one possibility in some situations
- **D** Clear drinks bottles

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6 **A hand saw is used to cut plywood. What is plywood?**

- **A** A single thick piece of solid timber
- **B** Thin layers of timber glued together with grains at right angles
- **C** Wood fibres bonded with resin into a sheet, which can happen in some cases
- **D** Small wood chips glued into a board

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7 **What is a capacitor in a system?**

- A A component that stores electric charge
- B A component that gives out light
- C A component that detects temperature
- D A component that limits the flow of current

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8 **Why is mahogany used for furniture?**

- A It is strong and steady and has a rich colour
- B It cannot be polished
- C It is the cheapest timber, which can happen in some cases
- D It is very light and soft

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9 **What is a non woven fabric?**

A. A fabric made by bonding fibres together without weaving or knitting

B. A fabric made by looping yarns together

C. A fabric made from a single sheet of plastic

D. A fabric made by interlacing warp and weft yarns, which can happen in some cases

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10 **What is greyboard used for?**

A. Food packaging that touches food directly, which can happen in some cases

B. Outdoor signs in heavy rain

C. Electrical insulation in a plug

D. Book covers and rigid packaging where strength matters more than looks

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11 **What is a finish for a metal product?**

- **A** Powder coating
- **B** Laminating with paper
- **C** Varnishing with wood stain
- **D** Dyeing with fabric colour

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12 **What is extrusion of a polymer?**

- **A** Molten plastic is forced into a closed mould
- **B** Plastic sheet is heated and pulled over a mould, which can happen in some cases
- **C** Plastic is blown into a hollow bottle
- **D** Molten plastic is forced through a shaped opening to make a long section

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13 **What is soldering?**

A Bending wires by hand to join them

B Joining components to a circuit board with molten solder

C Cutting copper tracks with a saw

D Gluing components to a board with wood glue, in some situations

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14 **Which of these is a softwood?**

A Oak

B Pine

C Beech

D Mahogany

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15 **What is viscose?**

A A synthetic fibre made from oil

B A regenerated fibre made from wood pulp

C A natural fibre from a sheep

D A fibre made from a silkworm cocoon, in some situations

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16 **What is foam board?**

A A heavy board used for building walls, in some situations

B A light board with a foam centre used for display work

C A waterproof board used for boats

D A metal board used for car bodies

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17 **What is mild steel?**

A A pure iron with no carbon at all

B A cast metal that is brittle and cannot be bent

C A low carbon steel that is strong, tough and easy to shape

D A high carbon steel that is very hard and brittle, in some situations

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18 **What is blow moulding used for?**

A Making flat plastic sheet

B Making solid plastic rods

C Making plastic foam board, in some situations

D Making hollow plastic bottles

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19 **What is an output in a systems product?**

- **A** A sensor that detects a change
- **B** A device such as a motor, LED or buzzer that acts on the user
- **C** A switch that the user presses, which can happen in some cases
- **D** A program stored on a chip

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20 **Where do softwoods come from?**

- **A** Broad leaved trees that lose their leaves
- **B** Grasses that grow very fast
- **C** Cone bearing trees with needle leaves
- **D** Trees that grow only in deserts

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21 **Where does silk come from?**

A A chemical process using oil

B The cocoon of the silkworm

C The fleece of sheep

D The stem of a flax plant

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22 **Why does the grain direction of board matter when it is folded?**

A Grain direction makes board waterproof

B Grain direction only affects the colour of board

C Board always folds the same way in every direction, in some situations

D Board folds cleanly with the grain and may crack across it

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23 What is cast iron?

- **A** A brittle iron alloy that is strong in compression and easy to cast
- **B** A soft iron that bends easily by hand, which can happen in some cases
- **C** A stainless alloy that never rusts
- **D** A light alloy used for aircraft

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24 What is vacuum forming?

- **A** Molten plastic is forced into a closed mould, in some situations
- **B** Plastic is cut from a solid block
- **C** Plastic is blown into a hollow shape
- **D** Heated plastic sheet is pulled over a mould by suction

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25

What is chipboard?

A Thin layers of timber glued at right angles

B Wood chips bonded with resin into a board

C Wood fibres bonded into a smooth sheet

D A natural hardwood from a beech tree

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Flag a mistake

ANSWER KEY

1.	D	**10.**	D	**19.**	B
2.	A	**11.**	A	**20.**	C
3.	D	**12.**	D	**21.**	B
4.	D	**13.**	B	**22.**	D
5.	A	**14.**	B	**23.**	A
6.	B	**15.**	B	**24.**	D
7.	A	**16.**	B	**25.**	B
8.	A	**17.**	C		
9.	A	**18.**	D		

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