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

Material Considerations — 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 hand saw blade is made from steel. Why is steel a good choice for a saw blade?**

- A It cannot be sharpened at all, in some situations
- B It is soft and tears easily
- C It melts when it is used
- D It can be made hard and sharp and holds an edge

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2 **A model bridge is glued with PVA adhesive. Why is PVA a good choice for joining balsa?**

- A It melts the wood as it dries, in some situations
- B It only works on metal
- C It bonds wood well and dries clear
- D It never sets hard at all

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3 **A hammer head is made from high carbon steel. Why is high carbon steel a good choice for a hammer head?**

- A It is hard and resists denting when it strikes
- B It melts when it gets warm
- C It is soft and bends on impact
- D It is light and floats on water, in some situations

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4 **A backpack has a waterproof coating. Why is a waterproof finish useful on a backpack?**

- A It makes the backpack look bigger
- B It stops the backpack from ever tearing
- C It stops rain soaking the contents
- D It makes the backpack heavier

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5 **A mobile phone screen is made from glass. Why is glass used for the screen?**

- A It blocks all light from passing
- B It is soft and bends easily
- C It is clear, hard and resists scratching
- D It is cloudy and hard to see through, in some situations

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6 **A cordless drill bit is made from high speed steel. Why is high speed steel used for drill bits?**

- A It goes soft as soon as it warms up, in some situations
- B It rusts quickly in dry air
- C It stays hard when it gets hot from drilling
- D It bends easily under load

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7 **Why is card used for greetings cards?**

- A It is waterproof and fireproof, in some situations
- B It never bends or creases
- C It is stiff enough to stand and easy to print on
- D It is stronger than timber

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8 **Which of these is a non-ferrous metal?**

- A Cast iron
- B Aluminium
- C Stainless steel
- D Mild steel

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9 **Which of these is a hardwood?**

- A Oak
- B Spruce
- C Pine
- D Cedar

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10 **What is polythene used for?**

- A Saucepan handles
- B Car brake discs
- C Carrier bags and bottles
- D Electrical sockets, in some situations

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11 **What is meant by hardness in a material?**

A How well it returns to shape after bending

B How well it is drawn into wire

C How well it resists scratching and denting

D How well it bends without breaking

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12 **What is a disadvantage of chipboard?**

A It is too expensive for furniture, in some situations

B It is weak at the edges and swells when wet

C It cannot be cut with a saw

D It is heavier than solid steel

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13 **Why is wool warm to wear?**

A Its fibres trap air which insulates the body

B Its fibres are waterproof and smooth, in some situations

C Its fibres conduct heat away quickly

D Its fibres are made from metal

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14 **What is a ferrous metal?**

A A metal that contains iron

B A metal that contains no iron

C A metal that never rusts

D A metal that is always light

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15 **What is paper made from?**

A Wood pulp

B Molten metal

C Crude oil

D Animal hair

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16 **What is a non-ferrous metal?**

A A metal that contains no iron

B A metal that always rusts

C A metal that is magnetic

D A metal that contains only iron

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

- A Oak
- B Pine
- C Beech
- D Mahogany

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18 **Why can a thermoplastic be recycled?**

- A It breaks down in soil within days, in some situations
- B It dissolves in water
- C It can be melted and moulded into a new shape
- D It can be burned without smoke

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19 **What is meant by toughness in a material?**

A How well it conducts heat

B How well it resists breaking when hit

C How well it resists scratching

D How well it is hammered into shape, in some situations

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20 **What is chipboard?**

A Board made from recycled paper only

B Board made from wood chips glued together under pressure

C Board made from layers of veneer

D Board made from wood fibres and resin with no chips, in some situations

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21 **What is cotton?**

A An animal fibre from sheep

B A natural plant fibre from the cotton plant

C A synthetic fibre made from crude oil, in some situations

D A fibre made from wood pulp and glue

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22 **How can rust be prevented on steel?**

A By heating it until it melts

B By cutting it into thin sheets, in some situations

C By coating it with paint or zinc

D By storing it in water

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23 **Which paper product is best for a cereal box?**

- A Tracing paper, in some situations
- B Tissue paper
- C Folding boxboard
- D Newspaper

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24 **Why is aluminium used for aircraft parts?**

- A It is light and strong for its weight
- B It melts at a very low temperature, in some situations
- C It is heavier than steel
- D It rusts quickly in air

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25

What is a knot in timber?

A A joint used to fix two pieces together, in some situations

B A crack caused by cutting timber

C A mark left by a saw blade

D The place where a branch grew from the trunk

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Flag a mistake

ANSWER KEY

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

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