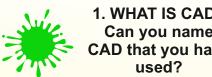
INDUSTRY AND ENTERPRISE



1. WHAT IS CAD? Can you name **CAD** that you have

2. WHAT IS THE **MEANING OF CNC?**



3. DESCRIBE COMPUTER **INTEGRATED MANUFACTURE (CIM)?**



4. WHAT IS RAPID PROTOTYPING? Include an example.



5. LIST 4 ADVANTAGES AND 4 DISADVANTAGES OF **COMPUTER AIDED MANUFACTURE (CAM** sometimes referred to as, work carried out on CNC machines).

7. EXPLAIN EACH OF THE **FOLLOWING TERMS: CROWDFUNDING, COOPERATIVES** AND FAIRTRADE

8. BRIEFLY EXPLAIN HOW **BARCODES ARE USED IN:** MANUFACTURING. **DISTRIBUTION AND** SUPPLY.

> 9. DESCRIBE 4 WAYS INFORMATION COMMUNICATION **TECHNOLOGY (ICT), IS USED** AS A MARKETING TOOL.



10. WHAT IS E-**COMMERCE AND EDI?** Include the advantages of EDI.



11. EXPLAIN THE FOLLOWING: COPYRIGHT, **PATENT AND TRADEMARK?**

6. WHAT IS MEANT BY THE CONCEPT OF **'CONTINUED IMPROVEMENT'?**

SUSTAINABILITY AND THE ENVIRONMENT

1. WHAT IS MEANT BY 'SUSTAINABILITY? Refer to card packaging in your answer.



2. WHAT IS A **SUSTAINABLE FOREST?**

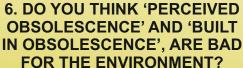


3. WHAT IS OUR **'CARBON FOOTPRINT?**

4. HOW CAN WE REDUCE OUR **CARBON FOOTPRINT?**



5. NAME AND EXPLAIN THREE RENEWABLE ENERGY FORMS (ALTERNATIVE ENERGY FORMS)





Explain vour answer.



7. LIST 4 ENVIRONMENTAL **QUESTIONS. CUSTOMERS REGULARLY ASK. WHEN DECIDING TO PURCHASE A** PRODUCT.

8. EXPLAIN 'PRODUCT LIFE **CYCLE** ASSESSMENT'.



9. DRAW A DIAGRAM REPRESENTING THE 'LIFE CYCLE' OF A MODERN CAR.



10. WHAT IS 'UPCYCLING' and WHAT IS 'DOWNCYCLING'?



11. WHAT IS 'CLOSED LOOP **RECYCLING' AND WHY IS IT REGARDED AS GOOD FOR** THE ENVIRONMENT?

12. WHY SHOULD **MAINTENANCE AND** REPAIRABILITY, BE **BUILT IN TO THE** PRODUCTS WE BUY

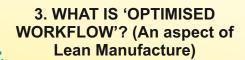


PRODUCTION TECHNIQUES AND SYSTEMS

1. DESCRIBE 'JUST IN TIME' (JIT)? Include some advantages of using this system.

2. EXPLAIN THE TERM 'LEAN MANUFACTURE'.

Include names of companies using this system of production,



4. EXPLAIN 'FLEXIBLE MANUFACTURING'. Include an example of a product manufactured in this way.



6. HOW WOULD YOU DESCRIBE / EXPLAIN EACH OF THE 6Rs?



INFORMING DESIGN DECISIONS

1. HOW CAN INFORMATION
COMMUNICATION TECHNOLOGY (ICT)
HELP WHEN
DEVELOPING AND MODELLING IDEAS?



2. EXPLAIN THE MEANING OF THE TERM 'TREND'.

Give an example of a product that became a trend.



3. DESCRIBE EXAMPLES OF TECHNOLOGY PUSH and also, MARKET PULL.



5. DESCRIBE 3 DIFFERENT DESIGN STRATEGIES, UTILISED BY DESIGNERS.



6. WHAT IS INCLUSIVITY? Include examples of products that have been designed to ensure inclusivity.





7. WHY IS WORKING AS A TEAM IMPORTANT (when designing and manufacturing)?

OTHER AREAS ALREADY COVERED
THAT ALSO RELATE TO THIS SECTION
PLANNED AND PERCEIVED OBSOLESCENCE

RECYCLEABILITY
REPAIRABILITY AND MAINTENANCE
LIFE CYCLE ASSESSMENT

PEOPLE CULTURE AND SOCIETY

USING THE INTERNET AS A RESEARCH TOOL, ANSWER THE FOLLOWING QUESTIONS:

1. WHAT IS CONSUMER CHOICE?

2. 'CULTURE' IS A COMBINATION OF BELIEFS, CUSTOMS, TRADITIONS AND VALUES. WHY DO DESIGNERS NEED TO CONSIDER 'CULTURE', WHEN DESIGNING PRODUCTS?

OTHER AREAS ALREADY COVERED THAT ALSO RELATE TO THIS SECTION

TECHNOLOGY PUSH and MARKET PULL
INCLUSIVITY
TRENDS
PERCEIVED OBSOLESCENCE