

**GRADE 7 TECHNOLOGY TASK 10**

**TOTAL: 50 MARKS**

**DURATION: 60 MINUTES**

**QUESTION ONE**

**(5)**

Define the following terms:

- 1.1. Triangulation (1)
- 1.2. Span (1)
- 1.3. Visual pollution (1)
- 1.4. Flexibility (1)
- 1.5. Shell structure (1)

**QUESTION TWO**

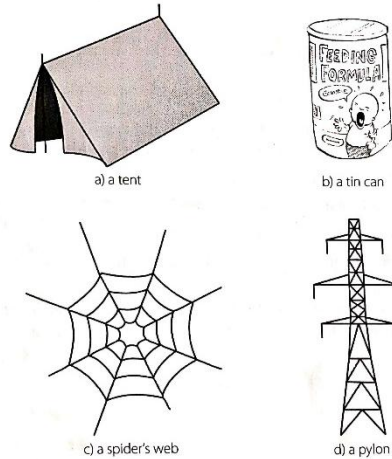
**(21)**

- 2.1. List FIVE examples of questions you should ask when you are creating a list of specifications for a product. (5)
- 2.2. To know if something is a structure, it must have one or more specific purposes. Name and explain the FOUR purposes. (8)
- 2.3. Tabulate THREE advantages and disadvantages of cellular phones. (6)
- 2.4. Differentiate between struts and ties. (2)

**QUESTION THREE**

(12)

- 3.1. For each picture (a-d) in Figure 2:
- State whether it is a natural or man-made structure.
  - State the type of structure (frame, shell or solid)
  - State the purpose of the structures.



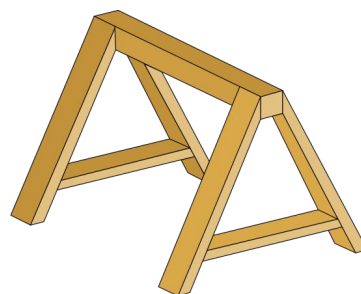
Copy the table below and fill in your answers

	Natural or man-made	Frame, shell or solid	Purpose
Tent			
Tin can			
Spider web			
Pylon			

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**UR** (8)

- Name THREE ways in which you would strengthen a material. (3)
- Explain the difference between tension and compression forces. (2)
- Evaluate the design of the bench below. Do you think it will be strong and sturdy? Would you make any changes? Explain your answer. (3)



**QUESTION FIVE**

(4)

A cell phone company wishes to erect a cell phone tower in the rural area where you live. Discuss the impact of this. Mention at least 2 positive impacts and 2 negative impacts that the cell phone tower will have on this rural area. (4)