



**HILLCREST HIGH SCHOOL
TECHNOLOGY**

**JUNE EXAMINATION 2021
GRADE 8**

TOTAL: 80

TIME: 1 HOUR

EXAMINER: MRS J M BEGA

MODERATOR: MRS T TONKIN

NAME/SURNAME: _____ GRADE 8 _____

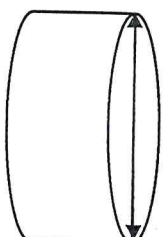
SUBJECT EDUCATOR: BEGA/STOLS/TONKIN

INSTRUCTIONS

1. The question paper consists of 4 questions and 6 pages including the cover page.
2. Answer all questions on the answer sheet provided.
3. Write your name and grade clearly and neatly in the space provided.
4. Highlight your Technology teacher's name above.
5. Technological based answers must be written.
6. All drawings/sketches must be completed using a sharp pencil and drawing instruments unless otherwise instructed.
7. Marks will be deducted for untidy work especially drawings/sketches.

Q1	Q2	Q3	Q4	TOTAL	MODERATED MARK
20	7	35	18	80	

- 1.1.9. The line in the circle is showing the _____.
- A Radius
 - B Circumference
 - C Diameter
 - D Centre



(1)

- 1.1.10. Structural failure happens when a structure _____.
- A Fractures
 - B Bends
 - C Topples over
 - D All of the above

(1)

- 1.2. Indicate whether the following statements are **TRUE** or **FALSE**. If false, correct the statement. (10)

- 1.2.1. Redundant members are parts of a structure that does support a load.

- 1.2.2. A stay is in tension.

- 1.2.3. Torsion is when a member is pulled in two opposite directions. (5)

- 1.3. Fill in the missing term or word in the blank spaces to make the statement true.

- 1.3.1. Another name for a 3D drawing is an _____ drawing.
 1.3.2. _____ motion is a backward and forward motion.
 1.3.3. A circular or turning motion is a _____ motion.
 1.3.4. An unstable structure will topple over if it has a narrow _____.
 1.3.5. A swimming pool diving is an example of a _____.

(5)

QUESTION 2: TYPES OF MOTION

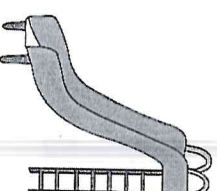
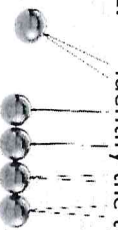
[7]

- 2.1. Complete the sentences by filling in the missing words. (3)

- 2.1.1. _____ motion is the movement in a straight line.

- 2.1.2. _____ motion is a circular _____ and forth motion.

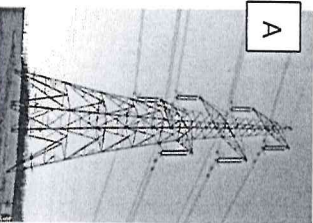
- 2.2. Identify the types of motion in the images below when in use. (4)



(4)

3.4. Draw an example of a King Post Roof Truss and provide labels for each structural member. (8)

3.5. Study the pictures below and answer the questions that follow:

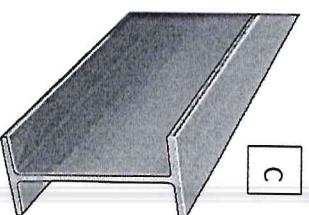
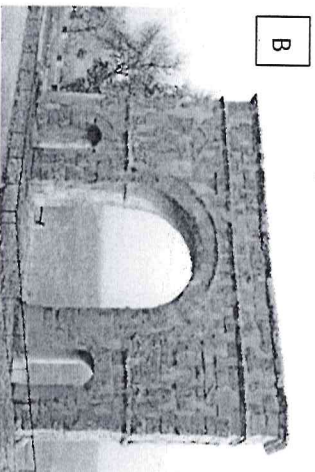


3.5.1. Identify the structures in each picture.

A - _____

B - _____

C - _____



3.5.2. Describe the technique used in picture A to help strengthen the structure. (3)

3.5.3. Fill in the missing words in the sentence below that describes PICTURE B: (6)
An _____ is a curved structure that supports a _____ structure. This shape helps
to _____ the _____ of its _____ weight and of any weight pressing
_____ on top of it.

QUESTION 4: GRAPHIC COMMUNICATION & DRAWING

[18]

4.1. Complete the chair below in single point perspective. (5)
● vanishing point

