



JSS ALL STRANDS AND SUBSTRANDS TOPICALS



GRADE 7 TOPICAL QUESTIONS

PRE TECHNICAL

VOLUME 1

A Series of Revision Assessment Questions for each and every Strand & Sub-Strand prepared by top JSS Specialists.

Perhaps, The questions are meant to enhance the learners' content mastery and revision purposes as well



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GRADE 7 TOPICAL REVISION QUESTIONS.
PRE TECHNICAL & PRE CAREER STUDIES.

STRAND 1: SAFETY

SAFETY

1. What is safety?
2. A ___ is something that could cause harm fo someone.
3. A hazard may cause or ___ ill health.
4. Hazards in science include __ fire and pathogens.
5. The chance of a hazard causing harm is called the ___.
6. If you wanted to convey the most severe type of hazard, which word would you use? (warning, notice, danger, caution)
7. Identify four types of health hazards
8. Give two safety rules and precautions to prevent hazards (harm)
9. A hazard can be ___ (behavioral, potential, physical, biological)



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10. Identify 2 potential safety career opportunities

INJURIES

1. What is an injury?

2. Identify three types of injuries.

3. Give four causes of injuries to your body?

4. What are the first aid requirements for the following injuries:

(i) Fractures

(ii) Sprain and strains

(iii) Burn

(iv) Scrape

5. Identify two careers one can study in First Aid and management of injuries.



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STRAND 2: MATERIALS

METALS AND NON-METALS

1. Give the common name and chemical name of an ore of

Zinc

Aluminium

Iron

2. Distinguish between properties of metals and nonmetals with reference to

(a) Malleability

(b) Ductility

(c) Density

(d) Lustre

(e) Conduction of heat and electricity

(f) Melting and boiling point

3. State the use of the following metals in daily life.

(a) Copper

(b) Iron

(c) Aluminium

(d) Magnesium

(e) Zinc

(f) Lead

(g) Silver

(h) Brass

(i) Mercury



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4. Identify two groups of metals.
5. State two properties of ferrous metals?
6. Give three properties of non - metals.
7. Non metals are?
8. Identify two career opportunities of use of metals and non - metals.

STRAND 3: TOOLS

HOUSEHOLD HAND TOOLS

1. Identify two household hand tools

2. State the use of the following tools ; daily life
 - (a) Hammers
 - (b) Hacksaw
 - (c) Clamp
 - (d) Drills
 - (e) Files

3. What kind of hammer should be useq on machined surfaces?

4. Can pliers be used for tightening and loosening small nuts? (Yes or No) Reason?

5. State the use of the following farm ; hand tools in daily life.



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- (a) Spade
- (b) Rake
- (c) Scissors
- (d) Wheelbarrow
- (e) Sickle
- (f) Sprinklers

6. State three ways of maintaining farm tools.

STRAND 4: DRAWING

DRAWING

1. Give the meaning of the following terms:

- (a) Technical drawing
- (b) Artistic drawing

2. Who uses technical drawing?

3. Another name for Technical drawing is?

4. Engineering drawing is a form of? (Communication, drawing, European language)

5. Technical drawings must



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- A. Include dimensions
- B. Include labels
- C. Be drawn on special paper
- D. All of the answers are correct

6. Which tool is used to draw horizontal line?

(T square, protractor, divider, 30 x 60 triangle)

7. What is the name of this drawing instrument

STRAND 3: ENERGY RESOURCES

ENERGY RESOURCES

- 1. Name a non-renewable energy resource that is not a fossil fuel.
- 2. State three disadvantages of wind power.
- 3. Name two materials that we can burn in order to get energy from 'Biomass'
- 4. Identify two renewable sources of energy.
- S. Differentiate between renewable and non - renewable sources of energy.



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6. State two advantages of renewable energy.

7. Give four uses of energy in everyday life.

8. Identify two careers related to energy.

9. State four forms of energy.

10. State the uses of the following forms of energy in our daily life
 - (a) Heat energy
 - (b) Sound energy
 - (c) Light energy



PRE TECHNICAL & PRE CAREER STUDIES
MODEL TEST PAPERS

MODEL PAPER 1

1. What is personal safety?
2. What are the three major hazards?
3. A hazard is anything that could cause?
4. What is the importance of hazard identification?
5. Identify three basic safety rules?
6. Why is it important to prevent hazards?
7. Hazard science include ___ and fire.
8. The more familiar a person is with a hazard, the ____.
(number of people harmed each year, less risky they perceive the hazard)
9. An example of a visible risk would be
10. Who should you notify right away about an accident in school?
11. What are the factors that cause injury?
12. Which injury is most common?
13. What is the most injured part of the body?
14. Give two ways how injuries can be prevented?
15. What type of injury is strain?
16. What is the first aid requirement for a burn injury?
17. Describe the term medical malpractice?
18. State three importance of first aid?
19. What are the two main aims of first aid?



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20. What is the correct sequence for the primary survey

- A. Damage, Response, Airway, Breathing
- B. Danger, Response, Airway, Breathing
- C. Danger, Reply, Airway, Breathing

MODEL PAPER 2

1. What are metals?
2. List five properties of metals.
3. Diamond is a metal or non-metal?
4. List three differences between metals and non-metals.
5. What are three uses of non-metals?
6. What property of copper makes it suitable for electrical wiring?
7. Name a metal which
 - (a) Is the best conductor of heat
 - (b) Is most ductile
8. A metal which exist as a liquid at room temperature is?
9. The poorest conductor of heat among metals is?
10. Mention the physical properties of non-metals.
11. Give two physical properties of ferrous metals?
12. What are natural materials?
13. Name three synthetic materials?
14. What is the importance of a stainless steel?



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15. ___ is used to galvanise iron and steel to prevent ___.
16. Using a table categorize non metallic material into synthetic and natural materials.

MODEL PAPER 3

1. What is the most useful hand tool at home. Why?
2. What should be done first before using hand tool?
3. Give two factors to consider when choosing hand tools?
4. Explain the use of the following hand tools
 - (a) Hammer
 - (b) Screw driver
5. What are the two proper use of hand tools.
6. Identify two basic safety rules when handing tools?
7. What should be in a household tool kit?
8. What is basic hand tool?
9. When using a hammer to strike a nail, the strength comes from your (shoulder, elbow, wrist, hand)
10. ___ is for cutting branches of planting materials and unnecessary branches of plants.
11. ___ is a hand-held agricultural tool with a variously curved blade used for cutting weeds.
12. ___ is used for cleaning the ground and levelling the top soil.
13. What is the importance of farm tools?
14. What should be done to help farming hand tools last longer?
15. Name two most used tools in farming?
16. You need to transport fertilizers from the storage to the farm. Which tool will enable you to perform the task?



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17. Mention two types of water pipes?
18. Describe how the farmers maintain their farm tools?
19. What is the use of a hand fork?

MODEL PAPER 4

1. What is a technical drawing?
2. A perspective drawing is?
3. Technical drawings must include? (dimensions, labels, instruments)
4. What are the most common dimensions?
5. To measure angles in technical drawing we use the
6. What is artistic drawing?
7. Identify different types of drawings used in technical drawing?
8. Distinguish between artistic and technical drawings?
9. Describe the use of artistic drawings in the following fields
 - (a) Graphic design
 - (b) Animation
 - (c) Technicians
10. What is the use of the following tools in technical drawings
 - (a) Protractor
 - (b) Compass
 - (c) T-square
11. State the importance of drawing in our daily life?
12. identify four materials and instruments used in technical drawing?



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13. Draw a perpendicular line using the drawing instruments.
14. Identify the proper care and maintenance of drawing instruments.
15. Describe the use of free hand sketchers in expressing artistic ideas?
16. What is the importance of free hand sketching in our day to day life?
17. Identify two careers where geometrical construction is applied?
18. Identify different types of quadrilaterals in plane geometry.
19. Name four different fields where geometrical construction is used.
20. What is the importance of geometrical construction in everyday life?

MODEL PAPER 5

1. Identify five sources of energy within your locality.
2. Which is an appropriate source of energy for use?
3. What is the difference between renewable and non — renewable sources of energy?
4. Explain the importance of energy in our lives.
5. Give two careers related to energy in the locality.
6. State four different forms of energy.
7. Name two types of kinetic energy in the locality.
8. What is potential energy?
9. Differentiate between kinetic and potential energy and give examples.
10. Identify the use of the following forms of energy
 - (a) Chemical energy
 - (b) Heat energy
 - (c) Geothermal energy



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(d) Light energy

11. How is energy important in our everyday life.

12. Give two qualities of a good source of energy.

13. State two advantages of renewable energy.

14. Give three disadvantages of non-renewable source of energy.

15. How are the following careers related to energy

(a) Mechanical engineer

(b) Electrician