

CONFIDENTIAL

GRADE 8

PRETECHNICAL STUDIES

MARKING SCHEME

1. Name three components of pre-technical studies. (2 mks)
 - a. Business education
 - b. Pre-Technical education
 - c. Computer education

2. Name the following storage devices. (5 mks)



Floppy disc



Flash disk

3. State five factors to consider when selecting a removable storage device for use. (5 mks)
 - a. Storage capacity.
 - b. Data transfer rate.
 - c. Compatibility/
 - d. Cost of the storage device.
 - e. Physical size.
 - f. Portability.
 - g. Durability.
 - h. Current technology.
 - i. User needs.

4. Identify the scanners name below. (4 mks)



MSR
Magnetic stripe
reader



OCR
**Optical character
recognition**

5. Define the following business term.(2 mks)

a. Communication is the process of sharing information through a channel from the sender to the receiver.

6. State three advantages and three disadvantages of oral communication channels.(6 mks)

	Advantages	Disadvantages.
1	Sharing of information is quicker especially through phone call or one on one conversation.	Not possible to tell if everybody is listening to you especially when dealing with a large group.
2	Feedback is shared immediately.	Sometimes there is no record kept for future reference.
3	Oral communication channels are suitable where persuasion is required.	Misinterpretation of the message may occur due to tone variation and mispronunciation of word.
4	They are cheap.	Misunderstanding may occur when the message is misinterpreted.
5	The sender can reinforce the message by using body language.	They could result in boredom and disengagement when a lot of information is being shared.

7. State three examples of written communication channels. (3 mks)

- a. Emails.
- b. Letters.
- c. Memos.
- d. Reports.
- e. Circulars.
- f. Short message services (SMS)
- g. Newsletters.

8. State four Factors considered when selecting channels of communication.(4 mks)

- a. Cost of the channel.
- b. Urgency of the message.
- c. Number of people receiving the message.
- d. Confidentiality of the message.
- e. Reliability of communication.
- f. Nature of the message: whether it is urgent, private or confidential.
- g. Need for immediate feedback.
- h. Supporting technology: both the sender and the receiver should have supporting tools to ensure the message is delivered successfully, for example mobile phones and internet

connectivity.

9. Identify three common examples of visual programming applications. (3 mks)
- a. Microsoft Make Code.
 - b. Scratch.
 - c. Code.org.
 - d. Sprite box.
 - e. Microsoft Visual Studio.
 - f. Roblox.
 - g. Minecraft

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10. Name the following picture to its hardware category. (8 mks)



KEYBOARD



BARCODE READER



MICROPHONE

REMOTE CONTROL



11. SAFETY GOGGLES AND HELMET

12. State five Causes of fire in a work environment. (5 mks)

- a.** Faulty equipment such as extension cables in places such as kitchens, offices, workshop or warehouses.
- b.** Fires when performing tasks such as welding, flame-cutting or grinding. This work generates heat, sparks or flames to cause fire.
- c.** Improper storage of flammable and combustible materials such as flammable liquids or charcoal in workplace.
- d.** Human errors such as using equipment such as electric cooker incorrectly, not reporting faulty machinery as well as leaving cooking food unattended may lead to fire accidents.

13. Name four injuries caused by fire at work places. (4 mks)

- a.** Burns-where fire raises temperature of the skin and tissues causing the tissues and cells to die.
- b.** Smoke choking- where the victim suffers obstructed breathing, seizures and comas.
- c.** Chemical poisoning from inhaling poisonous fumes such as carbon monoxide.
- d.** Shock where a victim develops abnormal heart rhythm and becomes unconscious.

14. Outline four Prevention methods of fire outbreaks in a work environment. (4 mks)

- a. Providing enough safety and security at work premises.
- b. Keeping a work environment clean and orderly.
- c. Being cautious when performing activities using open fire.

- d. Having all equipment well services and maintained.
- e. Allowing for easy access to electrical switches and fire alarm equipment.
- f. Storing and handling flammable materials and liquids with care.

15. List down two materials made of leather (2mks)

For example, clothing, shoes, bags, belts, furniture, soft furnishings, and even equine equipment, such as saddles and bridles

16. Give three types of marking tools. (2mks)

- Tracing wheel and dressmaker's paper: Dressmaker's paper is something like carbon paper, in that it transfers markings with applied pressure. ...
- Water soluble pencils: ...
- Markers and pens: ...
- Tailor's chalk: ...
- Chalk pen: ...
- Pins:

17. Identify any three safety measures to observe when swimming (3mks)

- Look for and read the signs. Follow the posted safety information. ...
- Walk, do not run. Never run on the pool deck. ...
- Be careful getting in and out of the pool. ...
- Look before you leap or dive in. ...
- Stay within your abilities. ...
- Never swim alone. ...
- Play carefully. ...
- Do not drink alcohol. etc

18. Draw and name any four tools found in the first aid kit. (8mks)

- plasters in a variety of different sizes and shapes.
- small, medium and large sterile gauze dressings.
- at least 2 sterile eye dressings.
- triangular bandages.
- crêpe rolled bandages.
- safety pins.
- disposable sterile gloves.
- tweezers

19.Name four hazards to personal safety (3mks)

Some of the most common hazards at home include fire, poisoning and allergies.

There may also be risks posed by your home's contents, such as falls, choking, cuts and burns. This is not an exhaustive list, so you may find it useful to do your own research

20.Name the tools below (4mks)

clamp/vice



tape measure



21.Name two materials that can be made from the soil. (2mks)

Soil provides many services and many products. The plants that are grown in soil can be used for food, clothing, recreation, aesthetics, building materials, medicines, and more. The minerals that make up soil particles can be used for dyes, make-ups, and medicines, or shaped into bricks, plates, and vases.

22.List any two professions that require training on safety. (2mks)

- Environmental Management. Possible careers/roles: Policymaker, natural resource manager, land use planner, environmental consultant. ...
- Mold Inspector.
- Health and Safety Engineers.
- Hazard Control Specialist.
- Risk Control Specialist.
- Industrial Hygienist.
- Recycling Specialist.
- Safety instructors
- Life guards
- Doctors etc
-

23.Identify two examples of synthetic products. (2mks)

Synthetic Products

- Plastic bag.

- Plastic bottle.
- Disposable diaper.
- Synthetic fiber/cloth (polyester, nylon, or rayon)
- Kevlar.
- Artificial sweetener.
- Synthetic fuel (Synfuel)
- Synthetic rubber.

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