

Candidate's Name		Assessment No.	
School Name		School Code	
Candidate's Sign		Date	



JUNIOR SCHOOL ASSESSMENT

GRADE 8

**JESMA
003**

- PRE-TECHNICAL STUDIES -

Time: 2 hour 10 minutes

INSTRUCTIONS TO CANDIDATES

1. Write your name and assessment number on the separate **answer sheet** provided.
2. Write the name and code of your school on the separate **answer sheet** provided.
3. Sign and write the date of the assessment on the separate **answer sheet** provided.
4. This paper consists of **two** sections: A and B.
5. **Section A** comprises Multiple Choice Questions.
6. **Section B** comprises Short Structured questions.
7. Answer **ALL** the questions in section A on the separate **ANSWERSHEET** provided.
8. Answer **ALL** the questions in section B on the separate **ANSWER SHEET** provided.
9. Answer all questions in **English**.

For official use only
SECTION B

Task	Task 1							Task 2					Task 3							
Question	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
Candidate's Score per Question																				
Max Score per Task	22							16					12							
Candidates Score per Task																				

This paper consists of 8 printed pages.

Candidates should check the question paper to ascertain that
all the pages are printed as indicated and that no questions are missing.

SECTION A: 30MARKS

1. General purpose computers are commonly used in the following places **except**
 - A. schools
 - B. hotels
 - C. hospitals
 - D. weather stations
2. Which factor of production of goods and services earns its reward in form of profit?
 - A. Capital
 - B. Land
 - C. Entrepreneurship
 - D. Labour
3. The part of dimension that is used to indicate the size of an arc or circle on an object by specifying its radius is called
 - A. radial
 - B. linear
 - C. angular
 - D. diameter
4. The following are drawing abbreviations. Which one means 'drawing'?
 - A. RF
 - B. D/A
 - C. ARG
 - D. CYL
5. Below is a printed word in lower case. Identify an ascender in the word.

print

 - A. p
 - B. r
 - C. n
 - D. t
6. The **best** tool to measure the inside or outside diameter of a cylinder or a round object is a
 - A. divider
 - B. steel rule
 - C. calliper
 - D. ammeter
7. Which statement below is **not** true about a drawing line?
 - A. It is not an important drawing element of a drawing
 - B. It is an identifiable path created by a point moving on a surface
 - C. It starts with a dot and ends with a dot
 - D. It is a mark made on a surface to join two or more points
8. Stopping fire by removing the source of fuel such as gas, wood or paper is called
 - A. cooling method
 - B. starving method
 - C. smothering
 - D. interrupting
9. Which one of the following is **not** a fire fighting equipment?
 - A. Bucket with water and sand
 - B. Fire extinguisher
 - C. Hose pipe
 - D. Brooms

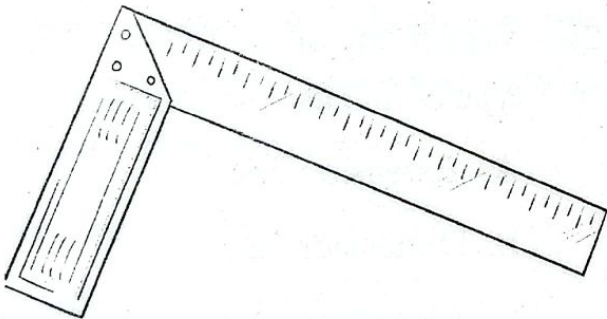
10. Which one of the following tools is **not** used for measuring?

- A. Steel rule B. Calliper
- C. Pencil D. Stopwatch

11. The **most** important basic First Aid procedure for any injury related to electricity in a work environment is

- A. seeking medical help
- B. not bursting any blisters on the skin of the victim
- C. resuscitating the victim
- D. turn off the current or moving the victim away from the source of electricity

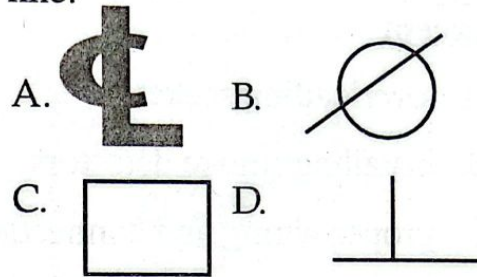
12. Study the try square provided below.



Which one of the following is **not** one of its functions?

- A. Make angles of 60°
- B. Draw right angles
- C. Mark a line at 90° at the edge of a woodwork
- D. Draw straight lines

13. The following symbols are used in drawing. Which one indicates centre line?



14. Which factor of production can be described by the following statements?

- i) *It reduces with time when used*
- ii) *It is a human made resource*
- iii) *It can be improvised with technology*
- iv) *It can be moved from one place to another*

- A. Land
- B. Capital
- C. Labour
- D. Entrepreneurship

15. The appropriate type of computer for use in a weather forecasting station, satellites and flight simulations is the

- A. micro-computer
- B. main frame computer
- C. mini-computer
- D. super computer

16. The following are characteristics of economic resources **except**

- A. scarce
- B. can change ownership
- C. evenly distributed
- D. have alternative uses

17. The following are ways of preventing fire outbreak in a work environment **except**
- overloading sockets
 - installing smoke detectors
 - proper wiring and connections
 - storing combustible materials away from fire
18. Which materials below is non-metallic?
- Silver
 - Glass
 - Iron
 - Copper
19. An ordinary school bell is made of
- copper
 - silver
 - aluminium
 - bronze
20. Which one of the following is **not** physical property of a metal?
- Are malleable
 - Are fragile
 - Are good conductors of electricity
 - Are good conductors of heat
21. The factor of production that is used to describe agricultural land, real estates, natural resources like gas and oil is called
- capital
 - labour
 - land
 - entrepreneuership
22. Which type of ICT tool can be used to design letters and memos that are used to pass information in business?
- Software
 - Email
 - Computer
 - Internet
23. Which one of the following is **not** a human made electronic resources?
- Wind
 - Book
 - Machine
 - Tarmac road
24. Which one of the following is **not** a type of line used in dimensioning?
- Extension line
 - Dimension line
 - Linear line
 - Leader line
25. Which one of the following is **not** a reason for caring for measuring and marking out tools?
- Extension of the life of the tool
 - Increase maintenance costs
 - Accuracy and better performance of the tool
 - Reduce cost of repair

26. Which one of the following is **not** a danger related to electricity in a work environment?

- A. Electric shock
- B. Electric burn
- C. Electrocution
- D. Electric choke

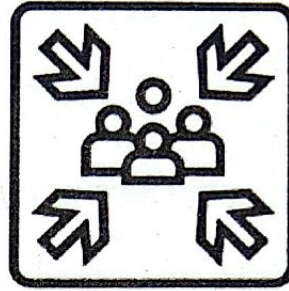
27. The type of fire fighting that involves removing oxygen to stop the fire is called

- A. starvation
- B. interrupting
- C. smothering
- D. cooling

28. Which one of the following is **not** a reason for carrying out First Aid on an injured person?

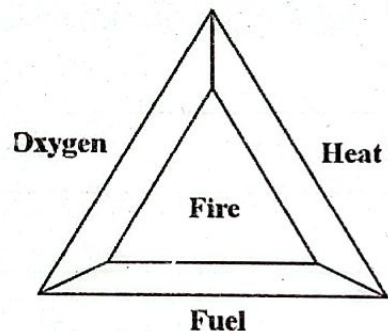
- A. Preserve life
- B. For self medication
- C. Promote recovery
- D. Prevent injury from worsening

29. The symbol below is common in buildings and is useful for fire safety procedures. Identify it.



- A. Fire assembly point
- B. Fire exit
- C. Fire alarm
- D. Fire brigade

30. The signate below shows that fire requires heat, oxygen and fuel to ignite light or burn. Identify it.



- A. Heat triangle
- B. Oxygen triangle
- C. Fire triangle
- D. Fuel triangle

SECTION B: 50 MARKS

31. State **three** characteristics of non-metallic materials. (3mks)

a) _____

b) _____

c) _____

32. State **three** functions of a general purpose computer. (3mks)

a) _____

b) _____

c) _____

33. List **two** importance of production of goods and services. (2mks)

a) _____

b) _____

34. Name **three** types of dimensioning used in drawing. (3mks)

a) _____

b) _____

c) _____

35. a) What is scale drawing? (1mk)

b) Name **two** types of scales used in drawing. (2mks)

i) _____

ii) _____

36. Define the term line **weight**. (2mks)

37. a) What is a marking out tool? (2mks)

b) Give **four** examples of marking out tools. (4mks)

i) _____

ii) _____

iii) _____

iv) _____

38. State **four** fire evacuation procedures in case of a fire break out. (4mks)

a) _____

b) _____

c) _____

d) _____

39. What is meant by First Aid in a work environment? (2mks)

40. State **three** injuries caused by fire in a work environment. (3mks)

a) _____

b) _____

c) _____

41. Name **four** examples of work environments. (4mks)

a) _____

b) _____

c) _____

d) _____

42. List **three** causes of fire in a work environment.

(3mks)

- a) _____
- b) _____
- c) _____

43. What is meant by **arson** as a cause of fire in a work environment?

(2mks)

44. State **four** ways of preventing fire outbreaks in a work environment.

(4mks)

- a) _____
- b) _____
- c) _____
- d) _____

45. a) What is an economic resource?

(2mks)

b) Name **four** main classes of economic resources.

(4mks)

- i) _____
- ii) _____
- iii) _____
- iv) _____