

# UMMUL-QURA HIGH SCHOOL

Arowona Bus-Stop, Amuloko, Ibadan, Oyo State  
JSS 3 MOCK Examination, 2020/2021 Academic Session.

**Subject:** BST II

**Class:** JSS 3

**Time:** 2:15 minutes

**Instructions:** Answer *all* questions in Section A and *three* in Section B.

## PAPER I & II [Objective and Theory]

### SECTION A: OBJECTIVE (30 marks).

#### BASIC TECHNOLOGY

- is a material used as electrical insulators.  
A. Capacitor  
B. Ceramic  
C. Resistor  
D. Rubber
- Machines that operate mainly with fluid are  
A. hydraulic.  
B. pneumatic.  
C. milling.  
D. gas.
- The product made by combining two or more metallic elements is  
A. an Aluminum.  
B. an Alloy.  
C. a Brass.  
D. a Bronze.
- Belt drives are driven by the aid...  
A. gear.  
B. machine.  
C. pulley.  
D. shaft.
- One of the following is a method of wood conversion.  
A. defect sawing  
B. line sawing  
C. straight sawing  
D. tangential sawing
- An example of natural defect is  
A. bow.  
B. knot.  
C. twisting.  
D. wanes.
- Metals are classified into pure metals and -----.  
A. alloy  
B. carbon steel  
C. ferrous metals  
D. non-ferrous metals
- Which of the following persons is a Nigerian role model in mechanical engineering?  
A. Dr. Philip P  
B. Dr.ChikeObi  
C. Dr. Chinwa Achebe  
D. Dr.Ayodele Awojobi
- Motions are classified into ----- types.  
A. five  
B. four  
C. three  
D. two
- Which of these is used as head protection device in workshop?  
A. Shield

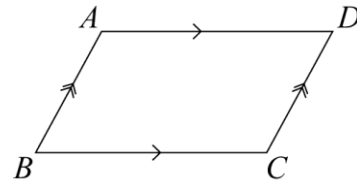
- B. Helmet
  - C. Gloves
  - D. Belt
11. Which of the following is one example of non-ferrous metal?
- A. Steel
  - B. Mild-steel
  - C. Magnet
  - D. Copper
12. Tile used for walls and floors in building is a product from
- A. metals.
  - B. glass.
  - C. concrete.
  - D. ceramics.
13. First aid can be used to care for the following **except**;
- A. accident
  - B. injury
  - C. headache
  - D. blood donation
14. Hazard control during rescue operation includes the following **except**;
- A. poisonous substance
  - B. swift-moving current
  - C. hygienic air
  - D. biological agents
15. .... is the use of modern and acceptable scientific approach to doing and making things?
- A. Technology
  - B. Metal work
  - C. Artificial
  - D. Transit

16. The following can be used as drawing instruments in Board Practice **except**;

- A. pair of compasses
- B. tee square
- C. eraser
- D. protractor

17. Freehand sketching involves the use of eraser, ----- and -----.

- A. pencil, paper
- B. pencil, scale
- C. protractor, divider
- D. sharpener, compass



18. The name of the object above is;

- A. parallelogram
- B. rectangle
- C. rhombus
- D. trapezoid

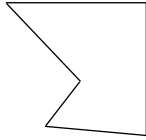
19. A figure bounded by ten sides is called.

- A. Decagon
- B. Nonagon
- C. Octagon
- D. Hexagon

20. A quadrilateral is a plane figure bounded by ----- sides.

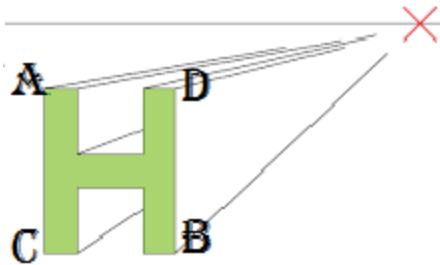
- A. 3
- B. 4
- C. 5
- D. 6

21. The figure below can be described as;



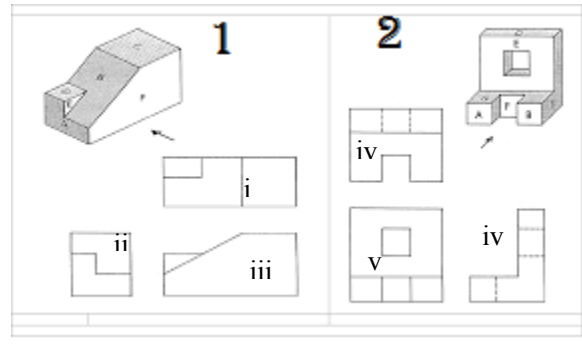
- A. five-sided rectangle
- B. irregular quadrilateral
- C. irregular trapezoid
- D. irregular pentagon

Use the figure to answer questions 22-23.



22. In the figure above, the vanishing point is;
- A. X
  - B. A
  - C. B
  - D. CD
23. What type of drawing is illustrated in the figure above?
- A. Isometric
  - B. Perspective
  - C. Oblique
  - D. Cavellian
24. Portable power hand tools include the following **except**;
- A. fret saw.
  - B. nailing gun.
  - C. belt sander.
  - D. circular saw.

Use the figure below to answer questions 25-28.



25. Which of the following pictures is drawn in isometric?
- A. 1.
  - B. 2.
  - C. ii
  - D. iii
26. The object projected in first angle projection from the figure above is;
- A. 1.
  - B. 2.
  - C. 1 and 2.
  - D. 2 and 1.
27. The object projected in the third angle projection is;
- A. 1.
  - B. 2.
  - C. 1 and 2.
  - D. 2 and 1.
28. From the picture 1 in the figure above, the front view in the direction of the arrow is;
- A. i.
  - B. ii.
  - C. iii.
  - D. iv.
29. In a scaled drawing, 1:1 represents drawing in;

- A. full-sized.
  - B. reduced-size.
  - C. enlarged-size.
  - D. normal-size.
30. Floating and blowing are two common methods of making glass, what is the best way of cooling the product without cracking?
- A. Geometric
  - B. Annealing
  - C. Natural air
  - D. Electric oven.

## COMPUTER TECHNOLOGY

31. ----- is an example of an online social media.
- A. BBC.com
  - B. CNN.com
  - C. Google.com
  - D. WhatsApp
32. .... is an example of a browser.
- A. Facebook
  - B. Opera mini
  - C. WhatsApp
  - D. Windows XP
33. .... method involves the use of our brains, pen and paper to process data.
- A. Electrical
  - B. Electronic
  - C. Manual
  - D. Mechanical
34. A cell can store three types of data, namely...
- A. label, value and formula.
  - B. numeric, alphabetic and symbol.
  - C. row, column and formula.
  - D. vertical, horizontal and value.
35. The database that has a tree like features is...
- A. flat.
  - B. file.
  - C. hierarchical.
  - D. network.
36. Using CTRL + V keys with the word processing can ensure the ..... of files/documents.
- A. loading
  - B. pasting
  - C. moving
  - D. saving
37. The act of going into someone's files on the internet without permission is...
- A. cyberwar.
  - B. fraud.
  - C. hacking.
  - D. piracy.
38. The method of recording and handling of data that makes it necessary for conversion is...
- A. collation.
  - B. collection.
  - C. gathering.
  - D. processing.
39. The following are examples of Operating system *except*;
- A. Windows
  - B. LINUX
  - C. Page maker.
  - D. CorelDraw
40. The world – wide connectivity of computer is known as \_\_\_\_.
- A. O 'NET

- B. Internet
  - C. faxing
  - D. intranet
41. The longest key on the keyboard is \_\_\_\_.
- A. return key
  - B. control key
  - C. escape key
  - D. space bar
42. Device through which information is accepted into the computer system are called ----.
- A. input device
  - B. output device
  - C. processing device
  - D. disc driver
43. What is the full meaning of BASIC?
- A. Beginners All - purpose Symbolic Instructional Code.
  - B. Be all symbolic instruction code
  - C. Basic symbolic input code.
  - D. Basic Technology
44. What is the output of the following program segment?
- ```

10 A = 10
20 C = A^ 2
30 PRINT C
40 END

```
- A. 2
  - B. 100
  - C. 20
  - D. 1000
45. A person that uses computer to accomplish a particular task is referred to as a \_\_\_\_.
- A. user
  - B. programmer
  - C. scientist
  - D. master
46. How many bits are there in 4 – bytes?
- A. 8
  - B. 24
  - C. 32
  - D. 16
47. Charles Babbage invented difference engine in \_\_\_\_.
- A. 1833
  - B. 1923
  - C. 1642
  - D. 1738
48. An example of application software is called \_\_\_\_.
- A. Ms excel
  - B. Ms DOS
  - C. Unix
  - D. Windows
49. Information can be transmitted through the following ways **except**.
- A. courier
  - B. Dancing
  - C. Oral
  - D. town crier
50. The following are examples of electronic media **except**;
- A. computer
  - B. fax
  - C. radio
  - D. bill board

51. The first generation of computers were built with
- A. nitrogen chip
  - B. silicon chip
  - C. transistors
  - D. vacuum tube
52. The following are graphic packages **except**;
- A. Corel draw
  - B. logo graphics
  - C. paint
  - D. photo shop
53. Which of these computer languages can be run without modification?
- A. Assembly
  - B. High level
  - C. Low level
  - D. Machine
54. The difference between people who has access to computer and the internet and those who do not have access is known as;
- A. digital divide
  - B. cyber drive
  - C. local access
  - D. digital access
55. Which of these is the **smallest** memory size unit?
- A. Megabyte.
  - B. Kilobyte.
  - C. Terabyte.
  - D. Gigabyte.
56. Which of the following did second generation technology computer used?
- A. Integrated circuit.
  - B. Translators.
  - C. Vacuum tube.
  - D. Capacitor.
57. What are the type(s) of electronic signals we have?
- A. Animation and Digital
  - B. digital and analog
  - C. Analog and Delimiter
  - D. Information and Communication
58. Virus attack and Privacy violation are some of the disadvantages of;
- A. computer
  - B. internet
  - C. sunlight
  - D. digital
59. A computer network is a set of computers connected together for the purpose of;
- A. playing music
  - B. type setting
  - C. watching movies
  - D. sharing resources
60. UNIVAC is an acronym that stands for
- A. Universal Automatic Computer
  - B. Universal Array Computer
  - C. Unique Automatic Computer
  - D. Unvalued Automatic Computer

SECTION B: THEORY (30 marks).

Instructions: Answer **two** questions from Part A and **only one** from Part B.

PART A: **BASIC TECHNOLOGY.**

1a. State **one** use each of the following hand tools:

- i. hammer
- ii. screwdrivers
- iii. senior hacksaw
- iv. metal file
- v. scriber

[5 marks]

1b. Name **five** non-medicinal materials used in first aid application. [2<sup>1</sup>/<sub>2</sub> marks]

1c. State **five** maintenance methods applied when caring for a machine and tool in the workshop. [2<sup>1</sup>/<sub>2</sub> marks]

2a. State **six** reasons why you feel Technology is important in our society. [6 marks]

2b. What is maintenance? And list **three** types of maintenance you've learned. [3 marks]

2ci. State **one** difference between wood conversion and timber seasoning.

2cii. A sample of timber weighed 160**kg** when it was wet. After seasoning for a week, the timber was 60**kg**. Calculate the percentage moisture content in the timber.

[4 marks]

3a. Briefly explain in your words the difference between alloying and casting in the processing of metal. [3 marks]

3b. Name **two** types of plastics and **two** types of rubber. [4 marks]

3c. State **three** properties of ceramics. [3 marks]

PART B: **COMPUTER TECHNOLOGY.**

4a. What is information technology? [1 mark]

4b. List **eight** examples of technology. [4 marks]

4c. What is Internet? And list any **five** services available on the Internet. [5 marks]

5a. Find the output of the program below.

```
10  INPUT A, B
20  READ A, B
30  LET C = A + B
45  PRINT C
50  DATA 5,10
```

[5 marks]

5b. state **three** function of an Operating System. [3 marks]

5c. List **two** benefits and **two** abuses of internet and computer. [2 marks]

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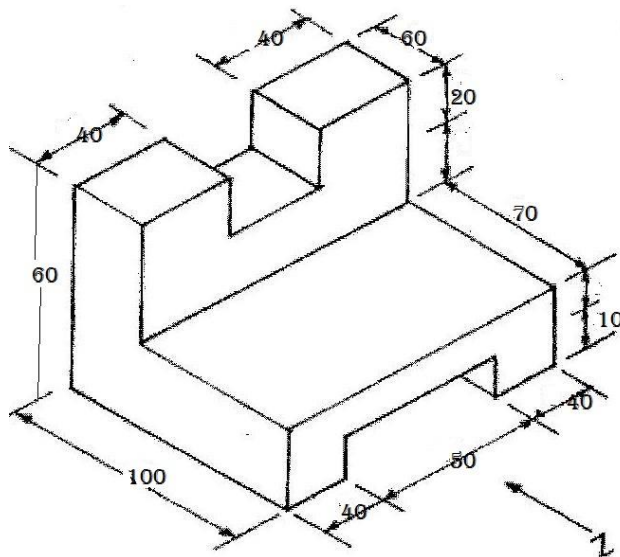
**Time:** 1:30 minutes

**Instructions:** Answer *all* questions in this paper.

## PAPER III [DRAWING PRACTICAL]

**Instructions:** Answer *all* questions in this paper.

- Neatness, accuracy and good draftsmanship are essential.
  - An A2 sheet (594mm x 420mm) drawing paper will be provided.
  - All dimensions are in millimeters.
  - Then study the figure carefully and answer the following questions:
1. Begin your work by making a neat border line and title block. Insert the following data into the title block;
    - i. name
    - ii. school
    - iii. subject code
    - iv. student no.
    - v. date and scale of the drawing
  2. Reproduce the figure in isometric to full scale.
  3. Project the figure in 1<sup>st</sup> angle projection (elevation), the plan view, the front view and the side view in the direction of the arrow Z.



Figure

10 marks.