



or



FIRST TERM EXAMINATION  
SUBJECT: PRE-TECHNICAL SKILLS  
CLASS: JHS 3

SECTION B  
PART 1  
(COMPULSORY)  
[20 marks]

Answer all questions from this part

1.(a)(i) List two methods of frying [2 marks]

.....

(ii) Give one example of a cereal crop. [1 mark]

.....

(iii) State one reason why people suffer from constipation [3 marks]

.....

(b)(i) State two properties of colours. [4 marks]

.....

(ii) State one reason why colours are important to a designer. [3 marks]

.....

(c) (i) Give one example of a device that can be used to amplify a current. [1 mark]

.....

(ii) Give one reason why aluminium is used for making saucepans. [3 marks]

.....

(iii) State one significance of a perspective drawing. [2 marks]

.....

(iv) Give one basic example of a diode. [1 mark]

.....

PART II  
OPTIONS

Answer two questions from this part.  
[50 marks]

2.(a)(i) What is meant by a material? [2 marks]

.....

(ii) List two classifications of materials. [2 marks]

.....

(iii) List two examples of building materials that are classified as aggregates. [2 marks]

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(b)(i) What is described as a ferrous metal? [2 marks]

.....

.....

.....

(ii) List two examples of ferrous metals. [2 marks]

.....

(iii) State two uses of cast iron. [4 marks]

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(iv) What is the carbon percentage in cast iron? [1 mark]

.....

(c)(i) List two raw materials from which plastics can be obtained. [2 marks]

.....

(ii) List the classification of plastics with two examples each. [6 marks]

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(iii) State one commercial use of acrylic. [2 marks]

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3.(a)(i) State two disadvantages of plastics. [4 marks]

.....

.....

(ii) Make a freehand sketch of a wooden float. [5 marks]

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.....

(iii) State one use of the wooden float. [2 marks]

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(iv) List three examples of woodwork chisels. [3 marks]

.....

(v) State two ways of caring for a wood work chisel. [4 marks]

.....

(b)(i) State the function of a ferrule on a chisel. [2 marks]

.....

(ii) Give one reason why woodwork chisels are used with a mallet instead of a hammer. [3 marks]

.....

(iii) State the function of the back stiffer on a tenon saw. [2 marks]

.....

4. (a)(i) State one difference between the use of try square and a builders square. [2 marks]

.....

(ii) Under what condition does the cutting edge of chisel needs grinding? [2 marks]

(iii) State one purpose of backing a tenon saw.

[2 marks]

(b) (i) Make a freehand sketch of a mortar board.

[5 marks]

(ii) State one use of the mortar board.

[2 marks]

(iii) List three items made of nylon.

[3 marks]

(iv) List three items made of P. V. C.

[3 marks]

(c)(i) State one reason why non-ferrous metals do not rust.

[3 marks]

(ii) State one reason why plastic is commonly used these days than metal or wood.

[3 marks]

#### OBJECTIVES

1. The main function of carbohydrate in the body is for

- A. growth
- B. energy
- C. repair
- D. maintenance

2. Which of the following is used for portion control?

- A. Oval plate
- B. Ladle
- C. Casserole
- D. Sauceboat

3. The process of making another article from an existing one is termed as

- A. daring
- B. renovation
- C. patching
- D. remodeling

4. A common method of cooking riped plantain for sale is

- A. grilling
- B. baking
- C. roasting
- D. boiling

5. In taking body measurement, a firm tape measure is needed to

- A. save time
- B. obtain accuracy
- C. cut to specification
- D. make sewing easy

6. Which off the following principles of design is similar to balance?

- A. Rhythm
- B. Scale
- C. Perspective
- D. Proportion

7. A preliminary design is meant to

- A. make sketches
- B. improve creavity
- C. increase production
- D. produce ideas

8. A glass is best used to serve

- A. cream
- B. drinks
- C. ice cream
- D. yoghurt

9. Which of the following is a shading style?

- |  |   |
|--|---|
| <p>A. glozing      B. hatching<br/>C. sketching    D. tonning</p> <p>10. Rhythm, balance and emphasis are examples of<br/>A. design process<br/>B. art element<br/>C. idea development<br/>D. principles of design</p> <p>11. Which of the following is used for compacting mortar in a mould box?<br/>A. Tamping rod    B. Rammer<br/>C. Mallet            D. Gauge rod</p> <p>12. Which of the following is not a type of joint for fixing parts of furniture?<br/>A. Movable joints<br/>B. un removable joint<br/>C. Temporal joints<br/>D. Permanent joints</p> <p>13. In oblique drawing one side of the object is inclined at an angle of<br/>A. 30<sup>0</sup>                  N. 45<sup>0</sup><br/>C. 60<sup>0</sup>                  D. 90<sup>0</sup></p> <p>14. Which off the following is the first step in design?<br/>A. Choosing the right materials<br/>B. Making sketch models<br/>C. Colouring the sketches<br/>D. Choosing the appropriate materials</p> <p>15. Which of the following is a neutral colour?<br/>A. Red                  B. Blue<br/>C. Orange              D. White</p> <p>16. The funnel is an example of the surface development of a<br/>A. square pyramid<br/>B. cone<br/>C. cylinder<br/>D. square prism</p> <p>17. The type of material that is used to strengthen joints in woodwork is known as<br/>A. adhesive          B. abrasive<br/>C. wax polish        D. sanding sealer</p> <p>18. Soft solder is an alloy of<br/>A. lead and tin      B. lead and aluminum<br/>C. copper and tin    D. copper and lead</p> <p>19. Making a round hole in a piece of metal is termed as</p> | <p>A. chipping          B. boring<br/>C. drilling            D. chamfering</p> <p>20. In applying finishes, the emulsion paint is mixed with<br/>A. oil                  B. water<br/>C. thinner            D. turpentine</p> <p>21. Which of the following is the appropriate tool for enlarging holes in metals?<br/>A. Flat file            B. Hand file<br/>C. Round file        D. Square file</p> <p>22. Which of the following is used to protect the eye in the workshop?<br/>A. Spectacles        B. Helmet<br/>C. Goggles            D. Mask</p> <p>23. The teeth of file is prevented from choking by<br/>A. using the file on soft materials<br/>B. smering oil on the file<br/>C. rubbing chalk on the file<br/>D. using the file with safe edge</p> <p>24. Which off the following tools is used in building a wall?<br/>A. Gauge rod<br/>B. Steel rule<br/>C. Sliding bevel<br/>D. Marking gauge</p> <p>25. When a metal easily breaks under a sudden load, the metal is said to be<br/>A. fragile              B. brittle<br/>C. weak                D. salt</p> <p>26. Mortising is a method of cutting deep holes in<br/>A. metal                B. wood<br/>C. sand crete block    D. land crete block</p> <p>27. The tool used for plumbing wall is<br/>A. spirit level<br/>B. straight edge<br/>C. gauge rod<br/>D. builders square</p> <p>28. Which of the following is not suitable for making mortar?<br/>A. Cement<br/>B. Clay<br/>C. Smooth aggregate<br/>D. Course aggregate</p> <p>29. Sand crete bricks are made from<br/>A. clay and lime</p> |
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- B. cement and clay
- C. cement and sand
- D. lime and sand

30. In drawing the most suitable grade of pencil to use is

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|-------|-------|
| A. H  | B. B  |
| C. HB | D. 2H |

