

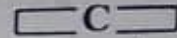
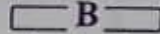
Answer all the questions

Each question is followed by four options lettered A to D. Find the correct option for question and shade in pencil on your answer sheet the answer space which bears the same letter option you have chosen. Give only one answer to each question. An example is given below.

The first step to be taken when checking a socket outlet for a fault is to

- A. switch off power at the mains switch.
- B. open the socket outlet.
- C. test the socket outlet.
- D. remove the mains fuse.

The correct answer is switch off power at the mains switch which is lettered A and the answer A space would be shaded.

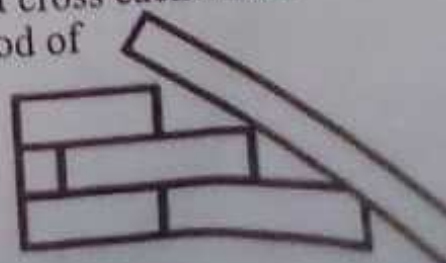


Think carefully before you shade the answer spaces; erase completely any answer you change.

Do all rough work on this question paper.  
Now answer the following questions.

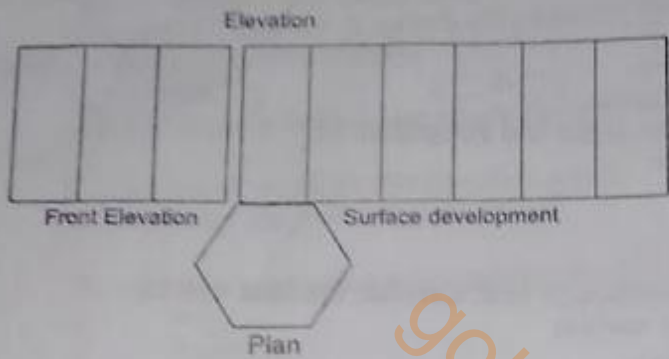
1. The symbolic meaning associated with zig-zag line is
  - A. rest.
  - B. weakness.
  - C. movement.
  - D. strength.
2. Citrus fruits can be helpful to the body in
  - A. improving digestion.
  - B. maintaining good eyesight.
  - C. healing of wounds.
  - D. promoting growth.
3. In using fork, knife and spoon at the table, it is appropriate to
  - A. hold knife in the left hand and fork in the right hand.
  - B. use only spoon to lift food into the mouth after food is cut.
  - C. place fork, knife and spoon on the table after being used.
  - D. use only fork to lift food into the mouth after food is cut.
4. In making stitches, threaded needle is passed in and out of a fabric
  - A. at specified intervals.
  - B. in a back-and-forth fashion.
  - C. around the edges.
  - D. in circles.
5. Each of the two pairs of lines that form a rectangle are
  - A. parallel to each other
  - B. divergent
  - C. convergent
  - D. Zig-zag
6. In a two-point perspective drawing,
  - A. there are no vanishing points.
  - B. both horizontal and vertical lines are drawn parallel to each other.
  - C. there are left and right vanishing points.
  - D. only the horizontal lines are drawn parallel to each other.
7. The first step to take in drawing the surface development of any prism is to
  - A. draw the plan.
  - B. letter the sides to correspond with both views.
  - C. project and draw the elevation.

- 8. The element in nature shown by the sky is
  - A. line.
  - B. shape.
  - C. colour.
  - D. texture.
- 9. The colour yellow can be extracted from the
  - A. root and bark of cashew.
  - B. dry skins of onion.
  - C. fresh leaves of gauva.
  - D. bark of mango.
- 10. Persons who need protein most do **not** include
  - A. babies.
  - B. invalids.
  - C. adult workers.
  - D. pregnant women.
- 11. Oedema is one of the signs and symptoms of
  - A. kwashiorkor
  - B. anaemia
  - C. rickets
  - D. scurvy
- 12. In the convection method of heat transfer, the heat moves
  - A. in a circular motion.
  - B. by direct rays.
  - C. by contact
  - D. in one direction.
- 13. One reason for the preservation of foods is to
  - A. enable them stay fresh forever.
  - B. limit their life span.
  - C. make them safe to eat.
  - D. destroy the chemicals in them.
- 14. Seams can be classified as
  - A. English or French
  - B. temporary or permanent
  - C. visible or invisible
  - D. plain or open
- 15. Stippling is the method of shading which involves
  - A. shading and rubbing with finger.
  - B. shading with dots.
  - C. using a particular type of line to shade in a particular direction.
  - D. using horizontal and vertical lines that cross each other.
- 16. The sketch in the figure below shows a method of
  - A. plumbing a wall.
  - B. leveling a wall.
  - C. tooting a wall.
  - D. checking rack back



- 19. A rebate plane is used for
  - A. cutting recesses along the edge of the wood.
  - B. finishing curve surfaces to the required contour.
  - C. filing off waste wood awkward at places.
  - D. drilling holes

20. Below is the surface development of

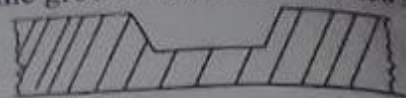


- A. cuboid
  - B. hexagonal prism
  - C. triangular pyramid
  - D. hexagonal pyramid
21. What is the function of the cap or back iron in the jack plane?
- A. it smoothens the surface of the wood
  - B. it breaks the shavings into shorter length
  - C. it protects the blade from breaking
  - D. it enables the plane to work faster
22. The back of a tenon saw is stiffened to
- A. increase the thickness of the blade.
  - B. prevent the blade from breaking.
  - C. prevent the blade from shaking.
  - D. make sharpening less difficult

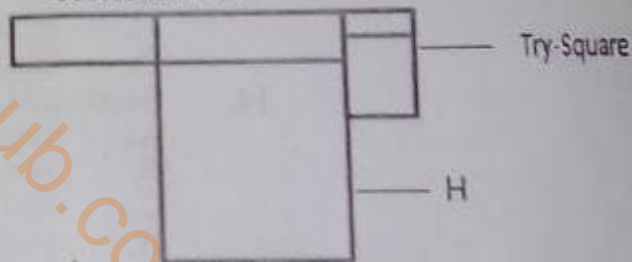
23. Which of these is not used in sheet metal?
- A. Dovetail
  - B. Lap
  - C. Grooved seam
  - D. Folded seam.

24. The oil stone is used for
- A. grinding broken tools.
  - B. sharpening blunt tools
  - C. oiling rusted tools.
  - D. straightening bent tools

25. Which of the following files should be used to file the groove in the sketch below?

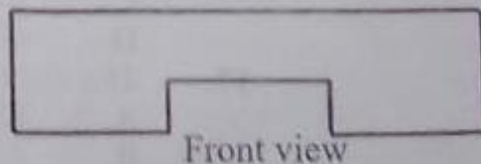
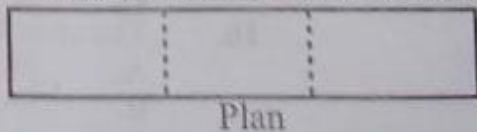


- A. Flat
  - B. Triangular
  - C. Hand
  - D. Square
26. Which of the following tools is used for holding metal work piece when filing?
- A. G-clamp
  - B. Bench vice
  - C. Sash clamp
  - D. Folding bar
27. Sapele is used for making office furniture because it
- A. is reddish brown.
  - B. is light in weight.
  - C. has attractive grain pattern.
  - D. is resistant to insect attack.
28. Which of the following building materials is not a binding material?
- A. Cement
  - B. Clay
  - C. Lime
  - D. Sand
29. In the sketch below, the edge labeled H is referred to as



- A. smooth edge
- B. datum edge
- C. square edge
- D. Straight.

30. The views shown below are in



- A. oblique drawing
- B. isometric drawing
- C. first angle orthographic projection
- D. third angle orthographic projection

SECTION A  
CORE SKILLS  
[20 marks]

Answer Question 1  
[COMPULSORY]

1. (a) (i) Copy and complete the table below on the following food nutrients as coming from *body-building, energy-giving or protective foods*.

FOOD NUTRIENT	FUNCTIONAL FOOD GROUP
Carbohydrate	
Vitamin C	
Fats and oil	
Proteins	

- (ii) Give two examples each of foods in a balanced diet that must be present in  
 (a) small quantities:  
 (β) moderate quantities:  
 (γ) large quantities:

- (b) Explain the following terms as used in sewing: [5 marks]

- (i) Stitch;  
 (ii) Seam;  
 (iii) Patch.

- (c) Your class wants to design and make an artifact for packaging pens. [3 marks]

- (i) Give two factors you will consider before coming out with the design.  
 (ii) Name four tools you will need for the work.

- (d) State the operation for which each of the following instruments is suitable. [4 marks]

- (i) Straight edge;  
 (ii) Protractor; *constructing angles*  
 (iii) Clips;

- (e) Draw the following types of lines: [3 marks]

- (i) Vertical  
 (ii) Horizontal  
 (iii) Curved  
 (iv) Diagonal  
 (v) Broken  
 (vi) Parallel

- (f) Give two reasons why people attend exhibitions. [3 marks]

## SECTION B

[50 marks]

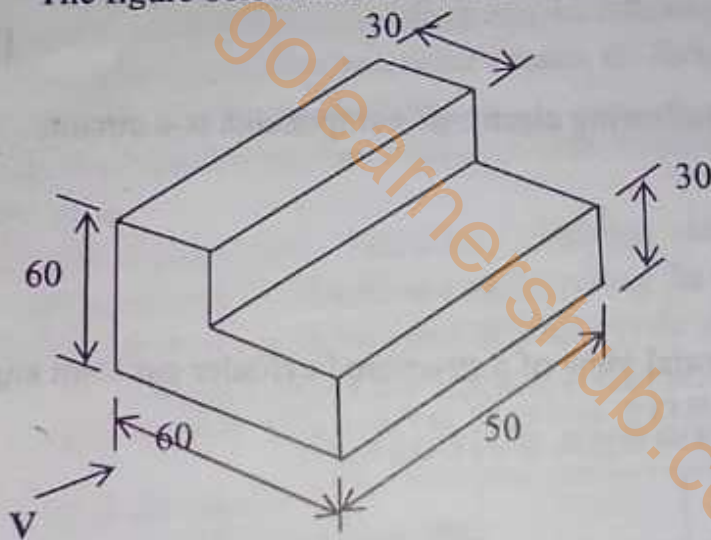
Answer two questions only from this section.  
All questions carry equal marks

1. (a) Copy and complete the table below.

MATERIAL	TWO SUITABLE JOINING TECHNIQUES
Wood to wood	
Wood to metal	
Metal to metal	
Plastic to wood	

- (b) (i) State the difference between chiseling and chipping.  
(ii) Identify **two** tools each for chiseling and chipping.  
(iii) State **two** precautions to follow when using a file.

- (c) The figure below shows a wooden block.



All measurements are in mm.

Draw full size and in third angle projection,

- (i) The front view in the direction of arrow V.  
(ii) The plan  
(iii) The right end elevation
- (d) (i) Make a neat sketch of flat file and label **four** parts  
(ii) State **three** precautions to be ensured when using a flat file.

2. (a) (i) What are *finishes*? *liquid bases*  
(ii) State **two** reasons for selecting a finish for specific jobs.

- (b) (i) Make a neat sketch of rip saw and label any **two** parts.  
(ii) State **two** ways for taking care and maintaining the rip saw.