



DAS B.E.C.E. PERFORMANCE BOOSTER

BASIC EDUCATION CERTIFICATE MOCK

SEPT

BDT (PRE-TECHNICAL SKILLS)

2&1

2HRS

NAME _____ **INDEX NO** _____

PAPER 2 70MARKS 1HOUR 15 MINUTES

COMPULSORY 20 MARKS

1(a). Briefly explain the following methods of cooking and give one example of food prepared by each method

i. Frying

ii. Baking

iii. Steaming

3marks

(b). State four reasons for cooking food

2marks

(c). Draw the following solid figures

i. square prism

ii. Triangular prism

iii. Square pyramid

3marks

(d). Give three reasons why we must carry out proper investigation after analysis of a problem

3marks

(e).i State four principles of design

4marks

(ii) list four elements of design

4marks

(f).i. What is design brief?

1mark

ii. Give two reasons for carrying out preliminary design

2marks

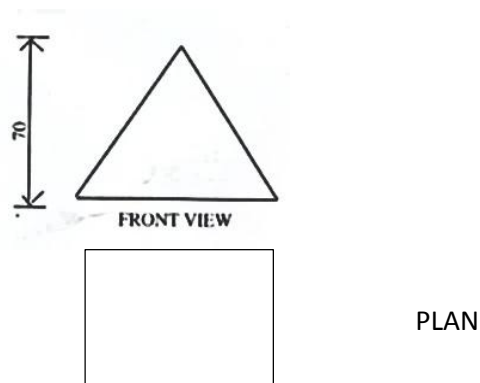
SECTION B

50 marks

Answer two questions only from this section

All questions carry equal marks

2(a). The figure below shows the surface development of a square pyramid.



a) Draw to the full size

i. Front elevation

ii. Plan

- iii. Surface development 15marks
- b) State one use each of the component in electrical circuit
 - i. Capacitor
 - ii. Key
 - iii. P – N junction diode
 - iv. LED 4marks

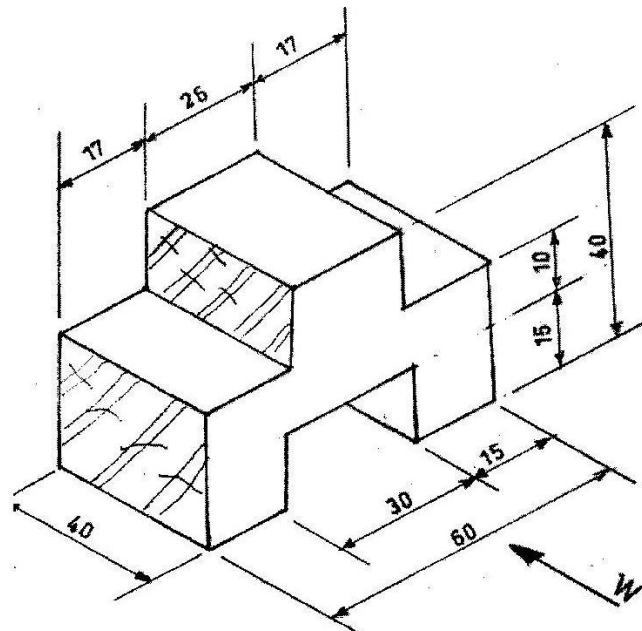
c) Sketch the scriber and identify the parts 6marks

3(a). State one use each of the following materials

- i. Concrete
- ii. Mortar
- iii. Sand
- iv. Blocks 4marks

(b). Define each of the following terms

- i. chipping
- ii. Chopping
- iii. Pining
- iv. Pairing 4marks



(c). The sketch above shows a joint for the construction of a chair in Das school workshop to be used by p.1 pupil's

- a) List four tools for setting and marking out the work piece 2marks
- b) i. State two operations involved in marking the work piece 2marks
- ii. Make a labeled sketch of a rip saw 5marks
- d. copy and complete the table below 8marks

material	Two properties	Two uses
Cast iron		
nylon		
copper		

4(a). state the purpose of the following

- i. Bonding
- ii. Seasoning

- iii. Conversion
- iv. Setting out a wall 4marks

- (b). Make a neat sketch of a round file 5marks

- (c) i. What is tinning? 2marks
- ii. Write down four tools used in a sheet of metalwork 4marks

- (d) i. State two difference between glass paper and emery cloth 4marks
- ii. Give two characteristics of cement 2marks

- (e). identify the tools used in performing the following operations
- i. Picking and spreading mortar
- ii. Checking the flatness of a work piece
- iii. Rendering surface of a wall
- iv. Step off equal distance on line. 4marks

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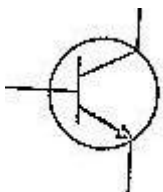
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PAPER 1 (30 Marks)

45 Minutes

1. The biggest amount of our body weight comes from
 - a. Fat
 - b. water
 - c. Vitamins
 - d. Protein
2. Which of the following can cause weakness in house furniture?
 - a. Lack of electricity in the house
 - b. Regular use of furniture
 - c. Missing nail
 - d. Type of wood
3. One disadvantage of partnership business is
 - a. It is difficult to raise capital
 - b. It is easy to raise capital
 - c. Profit goes to one person
 - d. Conflict in sharing profit
4. Another name for colour is
 - a. Pigment
 - b. Shade
 - c. Tint
 - d. Tone
5. Anaemia is a deficiency of
 - a. Vitamin d
 - b. Vitamin b12
 - c. Vitamin e
 - d. Vitamin c
6. The process involved in gathering information about a problem identified is termed.....
 - a. Analysis
 - b. Idea generation
 - c. Specification
 - d. Investigation
7. Which of these is not commonly associated with green colour in our society?
 - a. Puberty
 - b. Vegetation
 - c. Violence
 - d. Freshness
8. The open or plain seam is an example of --
 - a. Conspicuous seam
 - b. Inconspicuous seam
 - c. Overlaid seam
 - d. Double stitched seam
9. Which of the following vitamins can be lost by cooking?
 - a. Vitamins c
 - b. Vitamins a
 - c. Vitamins b
 - d. Vitamins b₂
10. When white light passes through a prism
 - a. Secondary colour is obtained
 - b. Eight colours are obtained
 - c. Seven colours are obtained
 - d. Primary colours are obtained
11. In designing a guide to follow to solve the problem is
 - a. Design process
 - b. Design brief
 - c. Situation
 - d. Analysis
12. Which of the following provides financial assistance to enterprises?
 - a. Post office
 - b. Banks
 - c. Churches
 - d. Schools
13. When the left and the right side of a design appear to be equal, it is said to be
 - a. Rythimatic
 - b. Contrasting
 - c. Proportional
 - d. Balance
14. Chalk is rubbed on the file teeth in order to
 - a. Sharpen the file
 - b. Decrease function
 - c. Prevent pinning
 - d. Promote function
15. A burnt brick is usually made from
 - a. Mortar
 - b. Clay
 - c. Lime
 - d. Cement
16. An adhesive is used for

- a. Joining surface together
 - b. Sealing against moisture
 - c. Providing safety against fire hazard
 - d. Providing surface decoration
17. Bonding is the method of arranging blocks in a wall as to
- a. Make the wall longer
 - b. Shorten the joints
 - c. Avoid vertical continuous joints
 - d. Lengthen the joints
18. The point angle for a dot punch is
- a. 90°
 - b. 45°
 - c. 55°
 - d. 60°
19. Marking out a flat metal plate for filling involves all of these processes except
- a. Coat of the surface
 - b. Drawing down
 - c. Dot punching
 - d. Showing datum
20. The main tool used for plumbing a wall in construction is
- a. Line and pins
 - b. Wooden float
 - c. Spirit level
 - d. Builder's square
21. Which of the following is a physical property of metal?
- a. Brightness
 - b. Colour
 - c. Ductility
 - d. Malleability
22. Slake lime is obtained by
- a. Heating limestone
 - b. Drying limestone
 - c. Adding water to quicklime
 - d. Crushing quicklime
23. The figure shown below is a



- a. Light emitting bulb
- b. Diode
- c. NPN transistor
- d. PNP transistor

24. To ensure proper start when using the hand drill, it is necessary to centre punch the
- a. Starting point
 - b. Draw a circle at the starting point
 - c. Drill a point hole at the starting point
 - d. Draw lines to intersect the starting point

25. The stage in designing which ideas are put in a freehand sketches is
- a. Analysis
 - b. Specification
 - c. Possible solution
 - d. Final solution
26. Which of the following is not a cutting tool.....
- a. Saw
 - b. Chisel
 - c. Planes
 - d. Sliding bevel
27. All the following are design process except
- a. Ergonomics
 - b. Design brief
 - c. Analysis
 - d. Specification
28. Seasoning of timber is done to---
- a. Increase their weight
 - b. To reduce their moisture
 - c. To enhance workability
 - d. To maintain their accuracy