DAS BECE BOOSTER SCHEME

BDT PRE-TEC

PRE-TECH
MARKING
SCHEME

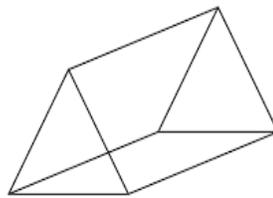### QUESTION 1

(a) i. frying is a quick method of cooking food in a hot oil eg. Fish plantain

ii. Baking is the dry method of cooking food in an oven eg. Bread

iii. Steaming is a method of cooking food with water vapour rising from boiling water--------------**3 marks, 1mark for each**

(b) reasons for cooking food
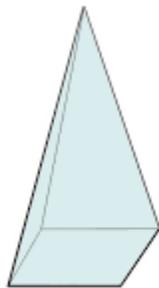
   i.   to kill germs in fresh food

   ii.   to soften for consumption and digestion

   iii.   to make food appetizing

   iv.   to enhance flavor in foods

   v.   to prevent food from natural decay -----**4points, 4marks, 1 mark each**

1 Triangular prism

(c)   square prism   square pyramid

3 marks, 1 ,mark each

(d) i. to estimate the total cost of the design

    ii. to determine the right tools and materials to use

    iii. to meet specification ----------**3marks, 1 mark each**

(e) i. to make eating more pleasant

    ii. it makes food appetizing

    iii. it helps to obtain maximum satisfaction ------**2marks, 1mark each**

(f) i. design brief is a written short statement of what the designer intends to do to solve a problem**.-----1mark**

(g) α) business enterprise is a business, set-up with the aim of making money/profit

β). Customer relation refers to the way by which entrepreneur relate to their customers----------------------**2marks, 1mark each**
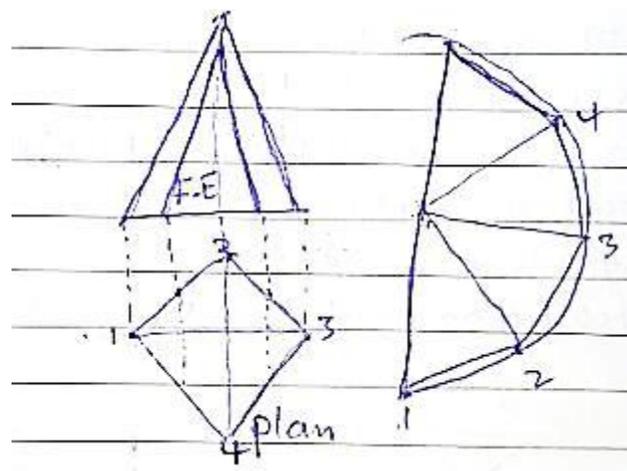
(i) i. your interest and strength

ii. capital

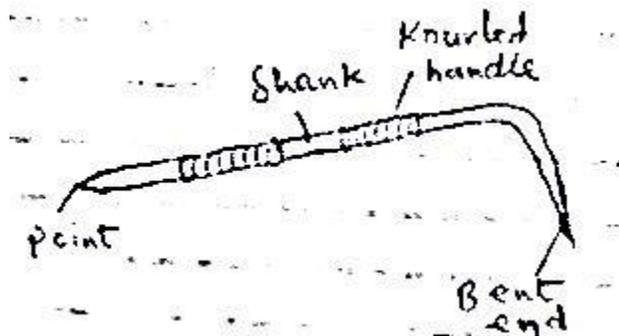iii. market niche -----------**any two, 2marks, 1mark each**

SECTION B

2(a**). 15 marks, 5marks each for plan, front and development**

(b) i. Capacitor stores electrical energy

ii. key is used to on or off the circuit

iii. P-N junction diode allows current to flow in one direction

iv LED emits light when current is allowed to flow in the circuit

(4marks, 1 mark each)

(c) 6 marks with correct labeling

3 (a) i. concrete – for making slabs, for making beam, foundation

ii. mortar ----for making plastering of wall

iii. sand for mortar mixing and concreting

iv. blocks for laying walls -**4marks, 1 mark each**

(b) i. this is the process of cutting metals with cold chisel and hammer

ii. chopping is the method of cutting deep holes in thick wood with a mortise chisel and mallet

iii. pinning is the when metal particles get embedded or logged in the teeth of the file

iv. pairing is the method of cutting thin slice of wood with a firmer chisel by using normal pressure on the chisel--------------------------**4marks, 1mark for each**
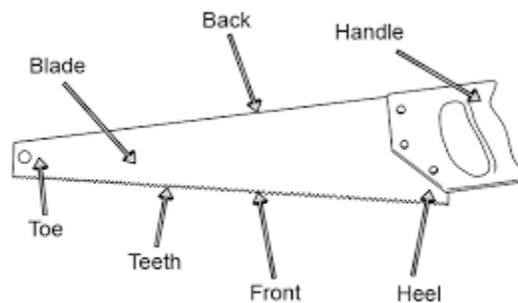
(c) a. try square, bench, rule, pencil, mortise gauge-any 2, for 2marks

(b) i. tools must be well examined

Select the required tools

Create marks using pencil and chalk-------------**any 2, for 2marks**

(b) **5 marks (with handle, blade, teeth)**

(d) copy and complete the table below

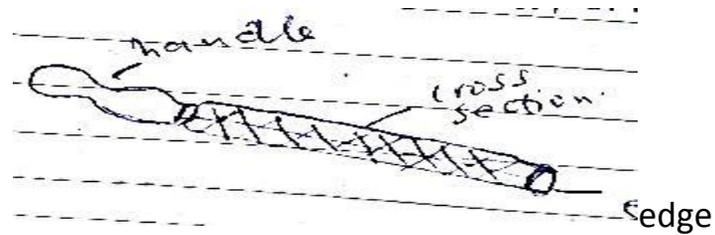| Material	Properties	Uses
Cast iron	1. It is strong 2. It is brittle 3. It is weak in tension	Body of sewing machine , box iron
Nylon	Good electrical insulator, tough, self-lubricating	Ropes, tooth brushes, gears
copper	It is malleable, ductile, non- corrosive	Soldering in electrical works, necklace

(8marks)

4 a. i. bonding : to avoid continuous vertical joint

ii. seasoning: to reduce moisture content in fresh timber

iii) conversion : sawing timber into standard

iv) setting out wall : to determine the position of a wall---------

(b) **5marks**

(c) I tinning is the method of coating a piece of metals with tin----**2marks**

ii) funnel stake, soldering bit iron, folding bar, pair of snips—**4marks**

(d) i.

Glass paper	Emery cloth
1. It is used in wood work 2. It is used in adhering sand to paper	1. It is used on metal works 2. It made by gluing aluminum oxide to cloth

4marks

ii. it is grey in colour

it is fine powdery form

its volume is o.o4m^3---------2marks

(e) trowel, try square, wooden float, pair of divider--------4marks

PAPER 1

1. A
2. C
3. D
4. A
5. C
6. D
7. C
8. B
9. A
10. C
11. A
12. B
13. D
14. C
15. B
16. A
17. C
18. D
19. C
20. C
21. B
22. C
23. C
24. C
25. C
26. D
27. A
28. B
29. B
30. C