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Subject - Manufacturing practice

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CARPENTRY SHOP

Q1. what do you understand by seasoning of wood?

Ans:- Seasoning of wood is the process of correctly drying timber in order to remove moisture in the cells of wood walls. It is a necessary

Procedure to produce seasoned timber, helping it to burn clearly. Seasoning can be achieved via several methods but all methods aim to remove water and prevent damage to the wood.

Q2. what are the advantages of sealing timber?

Ans:- Seasoning of timber is due to :-

(i) Allows the timber to burn easily when used as a fuel.

(ii) To reduce the weight so, transportation cost can be reduced.

(iii) To increase its hardness, toughness and strength.

- (iv) To maintain its shape and size when used in structure.
- (v) To reduce tendency against and warping.
- (vi) To make it more workable.
- (vii) To increase its resistance against fungi, insects, termite etc.
- (viii) To receive hit for decorative treatment.

Q3. Differentiate between hard wood and soft wood?

Ans. 1-

<u>Hard wood</u>	<u>soft wood</u>
1. It is dark in colour.	it is light in colour.
2. It is heavy in weight.	It is light in weight.
3. Hard wood is hard and dense.	soft wood is comparative lighter.
4. It has lesser resin content.	It is highly resinous.
5. It does not split quickly.	It gets splitted quickly.
6. It is difficult to work with.	It is easy to work.
7. It is slow growing.	It is fast growing.
8. It does not catch fire very easily.	It catches fire very soon.

Q4. what are block boards? State a few application.

Ans:- Block Board:- Block Board is one type of engineered Compound plywood board where softwood strips are joined at edge and bonded together machining after a sandwich structure placing hardwood between them. Block Board is usually found to be in different sizes and thickness. following are the main uses of block board :-

- for shelving such as long bookshelf, worktops as heavier structure.
- for furniture making such as table, bench, bed etc.
- for window, door, flushdoor
- Block Board does not sag in the middle or does not bend easily, so it is a choice for carpenters.
- for making wall furnitures.
- for wall panels, partition.

Q5. Give a list of making and measuring tools?

Ans:- List of making measuring tools.

- (1) pencil.
- (2) Marking gange.
- (3) Steel Rule
- (4) Try square.

- (5) measuring tool.
- (6) mortise gauge
- (7) sliding level
- (8) centre punch
- (9) Engineer's square
- (10) scriber
- (11) spring dividers
- (12) odd leg - callipers
- (13) inside calliper
- (14) outside calliper.

Fitting shop.

Q1. Define fitting shop?

Ans1. fitting shop:- fitting is the assembly together of parts and remaining metals to secure necessary fit and reaming metals to secure may or may not be carried out at bench. All fitting go to requires cage number of operations to finish the work in desired shape and size.

Q2. what is the material of center punch?

Ans:- The Center punch is made from mild steel with

the point hardened and tempered so that it withstands impact with the material it is marking. It is normally used to mark the center of a hole to be drilled either by hand or on the drilling machine.

Q3. what is the material for surface plate?

Ans:- They can be made from granite, metal or cast

iron, glass. Granite is considered to be the best material for surface plate due to its surface hardness, low thermal expansion, no rust or corrosion, little warping and long wear attributes.

Q4. what is Reamer?

Ans:- Reamer:- A reamer is a tool that is used to widen the size of a preexisting hole in metal by a small amount to leave smooth sides and edges removing any burns or rough edges. It is a pointed round file with a tip that is typically coated in diamond just to create a hard, durable surface that is great for fitting.

Q5. Differentiate between single cut and double cut file?

Ans:- SINGLE CUT FILE :-

A single cut file has single row of cut across the face of the file. The teeth are like the edge of a chisel.

DOUBLE CUT FILE :-

A double cut file has two sets of cut according each other which give the teeth the form of sharp points. These files cut faster than but not as smoothly as the single cut file.

MACHINE SHOP

Q1. Define the term machine tool?

Ans1- MACHINE TOOL:- A machine tool is a machine for handling or machining metal or other rigid materials, usually by cutting, burning, grinding, shearing, or other forms of deformation. machine tools supply some sort of tools that does cutting or shaping all machine tools have some means of constraining the workpiece and provide a guided movement of the parts of machine.

Q2. what is grinding?

Ans1- Grinding:- grinding is a material removal and surface generation process used to shape and finish component made of metals and other materials. The precision and surface finish obtained through grinding can be upto ten times better than with either burning or milling.

Q3. How other power driver machine differ from machine tools?

Ans1- machine is defined as an assembly of mechanisms that are distered together in such a way that it law perform certain

Such a way that it can perform certain operation by utilising electrical, mechanical and thereby reduces the requirement of human effort and intervention in doing the task. However, machine tools is not exactly same with the machine. The Iron machine indicates wide variety of machining, where as machine tools are all such machines that passes machine tool must be power driven.

Q4. List of main function of machine Tools?

Ans:- MAIN function of machine Tools Are:-

- (1) It transmits power from the prime mover to the required location as and when necessary for cutting or machining action.
- (2) It provides necessary motions to accomplish cutting action.
- (3) It also manipulates power and motion, including transformation of one type of motion to another type.
- (4) It also transmits cutting force and vibration to the ground.

Q5. Different drilling and Boring?

Ans 1- DRILLING

1. It is performed to originate a hole.
2. Cutting tool used for drilling is known as DRILL.
3. Drilling can increase the length of hole but not the diameter limited to drill diameter.
4. Drill is a double point cutting tool.

BORING

- Boring is performed to enlarge the diameter existing hole.
- Cutting tool used for boring is known as BORING BAR.
- Boring can increase the diameter of an existing hole but not the length.
- Boring bar is a single point cutting tool.