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Workshop Practices (PE-101)

SP/22 All Section Date- 04/07/2022 and Time- 06:00 PM to 07:00 PM

...

* Required

1

One of the disadvantages of a hydraulic shaper compared to the mechanical shaper is- *

- ☐ Less strokes per minute
- ☒ Stopping point of the cutting stroke can vary depending upon the resistance offered to cutting
- ☐ Cutting speed remains constant throughout the cuttings stroke
- ☐ Power available varies during the cutting stroke

2

Which of the following saw has an open handle? *

- ☐ tenon or back saw
- ☐ rip saw
- ☐ cross cut saw
- ☒ dovetail saw

3

The size of a bench vice signifies _____. *

- ☐ Does not depend on the size of the job.
- ☐ None of the above
- ☒ Minimum size of the job that can be fixed in it.

4

Chaplets are placed between mold in order to *

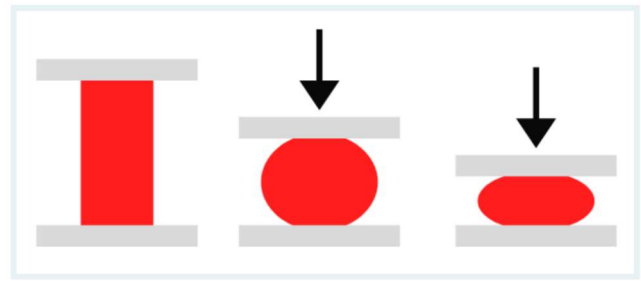
- ☒ help alloying the metal
- ☐ promote directional solidification
- ☐ prevent core movement due to buoyancy
- ☐ facilitate easy removal of core from casting

5

Which of the following joint have high corrosion resistance? *

- ☐ None of the above
- ☐ Bolted joint
- ☒ Welding joint
- ☐ Riveted joint

6



According to the figure select the type of forging *

- ☐ Both cold & hot forging
- ☐ Seamless rolled ring forging
- ☒ Open die forging
- ☐ Close die forging

7

Which of the following is not true for gas welding? *

- ☐ It is suitable for thin sheets
- ☒ Heat effected zone and distortion are less as compare to arc welding
- ☐ There are safety problems in storing and handling the gases
- ☐ It is slower than arc welding

8

Ceramic cutting tools should be used- *

- ☐ With cutting fluid
- ☐ With old machine tools

- ☒ With very high cutting speeds
- ☐ With low cutting speeds because of their brittleness

9

Solidification time of a metallic alloy casting is *

- ☐ Inversely proportional to the pouring temp
- ☐ Directly proportional to its surface area
- ☐ Inversely proportional to the specific heat of the cast material
- ☒ Inversely proportional to the thermal diffusivity of the mould material

10

The weight of hammers used in a fitting shop is *

- ☒ 0.45 kg - 0.70 kg
- ☐ 0.25 kg - 0.50 kg
- ☐ 0.5 kg - 0.75 kg
- ☐ 0.75 kg - 1 kg

11

The metals having good weldability, in descending order are *

- ☐ carbon steel, iron, cast steel, cast iron
- ☐ iron, carbon steel, cast steel, cast iron
- ☐ cast iron, iron, carbon steel, cast steel

- ☒ cast steel, iron, carbon steel, cast iron

12

Which of the following tool is used in marking and checking right angle? *

- ☐ Marking guage
- ☐ All of the above
- ☐ Meter square
- ☒ try square

13

Acetylene can be prepared by the chemical reaction between *

- ☐ Water and Calcium carbonate
- ☐ Hydrogen and Calcium carbide
- ☐ Hydrogen and Calcium carbonate
- ☒ Water and Calcium carbide

14

The machine tool that has the cutting stroke (removes material) when the ram moves towards the body is- *

- ☒ Draw cut Shaper
- ☐ Vertical shaper
- ☐ Mechanical shaper

☐ Universal shaper

15

Centre lathe is used- *

- ☒ In normal workshops and repair shops
- ☐ For automated production
- ☐ For high production rates
- ☐ For large production volumes

16

4-jaw chuck is used in a lathe to clamp- *

- ☐ Only for the cylindrical workpiece to locate the axis of rotation
- ☐ Only for the square bar to locate the axis of rotation
- ☐ Only for the eccentric workpiece to locate the axis of rotation
- ☒ Any type of workpiece to locate the axis of rotation

17

Which type of joint is shown in the figure *



- ☐ Lap Joint
- ☐ Mortise and Tenon Joint
- ☐ Dado Joint
- ☒ Butt Joint

18

Hardness of green sand mould increases with *

- ☒ Increase in permeability
- ☐ Decrease in permeability
- ☐ Increase in moisture content beyond 6 percent
- ☐ Increase in both moisture content and permeability

19

Micrometers are used for *

- ☐ Checking angles

- ☐ Marking
- ☒ Linear measurements
- ☐ Checking surface finish

20

A square file is used to file _____. *

- ☒ Corners
- ☐ general fitting
- ☐ angles
- ☐ Curved Surfaces

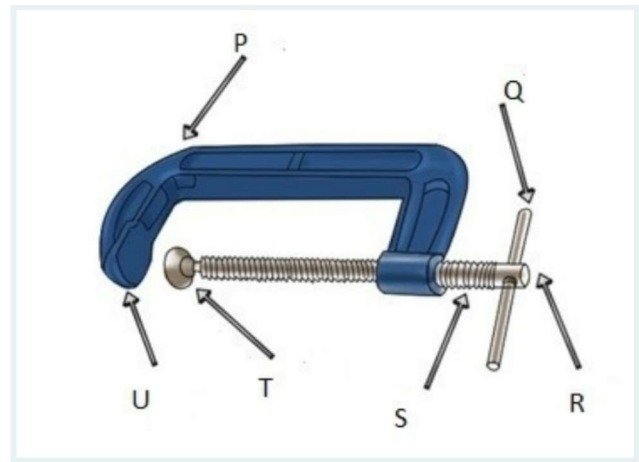
21

Effect of rake angle of cutting tool on machinability- *

- ☐ No effect
- ☐ Decreases machinability
- ☒ Increases machinability up to a certain limit
- ☐ Very little effect on machinability

22

What is the name of the component of the C-clamp (Figure) indicated by 'R.' *



- ☐ None of the above
- ☐ Handle
- ☒ collar
- ☐ Screw

23

The accuracy of micrometers, calipers dial, and indicators is checked by *

- ☐ plug guage
- ☐ ring guage
- ☐ feeler guage
- ☒ slip guage

24

Cutting tools with a negative rake angle require- *

- ☒ More horsepower for a given cut
- ☐ Less frequent sharpening

- ☐ Frequent resharpener
- ☐ Less horsepower for a given cut

25

Single-V and single-U butt welds are used for sheets of thickness *

- ☐ 10-20mm
- ☐ upto 10mm
- ☐ 15-25mm
- ☒ 5-15mm

26

The traditional method of forging called _____. *

- ☐ smith forging
- ☐ hand forging
- ☐ blacksmith
- ☒ all of the above

27



According to the figure select the type of tool used in hand forging. *

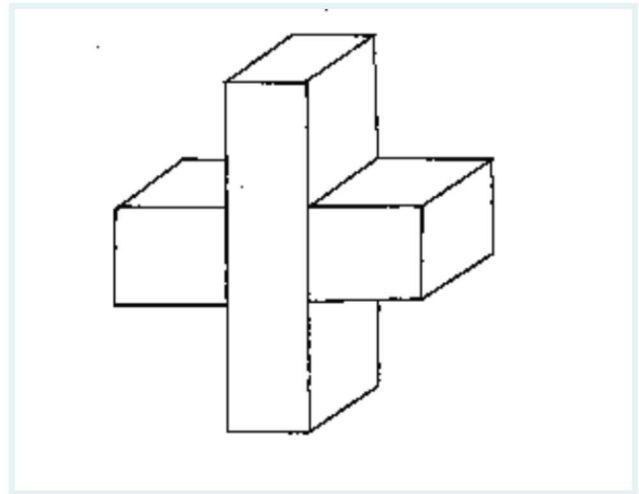
- ☐ tongs tool
- ☒ hammer tool
- ☐ punch tool
- ☐ anvil tool

28

Cold shut is a defect in the casting process due to *

- ☐ sand sliding from the cope surface
- ☐ internal voids or surface depression due to excessive gas trapped
- ☒ discontinuity resulting from hindered contraction
- ☐ two streams of material that are too cold to fuse properly

29



Which of the following tool is not used in making of given figure (half lap joint) ? *

- ☒ shovel
- ☐ try square
- ☐ rip saw
- ☐ mallet

30

The voltage needed in electric arc welding does not depend upon *

- ☐ Composition
- ☐ thickness of weld
- ☐ Area
- ☒ length of weld

31

Negative allowance is provided on the pattern to take care of *

- ☐ Machining allowance
- ☒ Shake allowance
- ☐ Draft allowance
- ☐ Rapping allowing

32

Hot chamber die casting is not suited for *

- ☐ Zinc and its alloys
- ☐ Lead and its alloys
- ☒ Aluminum and its alloys
- ☐ Tin and its alloys

33

According to the figure select the type of cutting tool used in hand forging. *



- ☐ Tongs tool
- ☐ Flatter tool
- ☐ Anvil tool
- ☒ chisel tool

34

Which of the following is used to measure angles? *

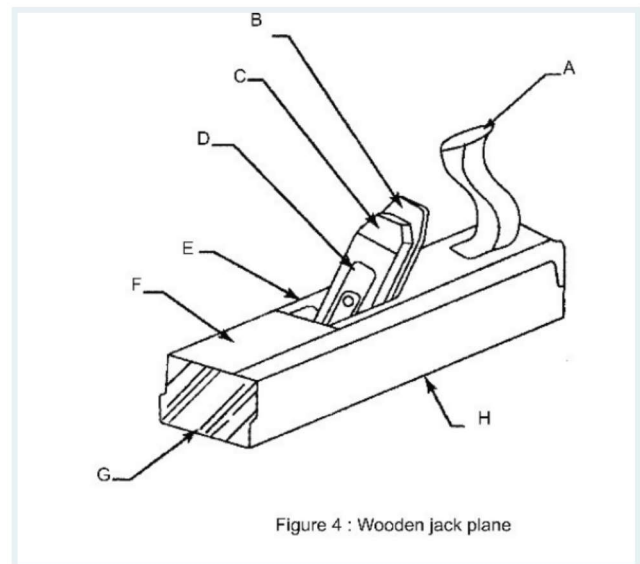
- ☐ odd leg caliper
- ☐ outside caliper
- ☐ All of the above
- ☒ bevel protractor

35

Several factors determine the ideal pouring time for casting. among them, one significant aspect is *

- ☐ porosity of sand mold
- ☒ fluidity of casting metal
- ☐ location of riser
- ☐ area of the pouring basin

36



Identify the component of wooden jack plane indicated by "C" in Fig . *

- ☐ handle
- ☐ throat
- ☒ wedge
- ☐ blade

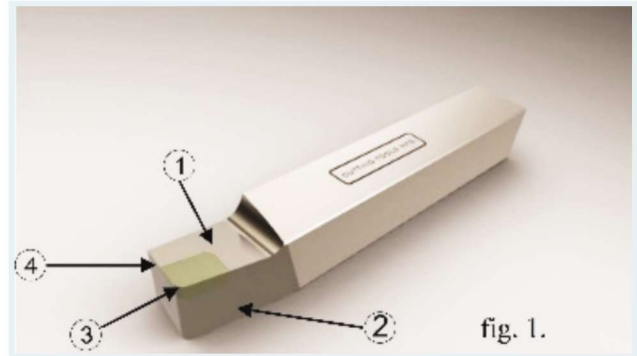
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Thread chasing is required in cutting screw threads because- *

- ☐ It improves surface finish
- ☐ It increases the threading tool life

- ☒ It is necessary to follow the thread
- ☐ It reduces the cutting forces

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Identify the tool signature indicated by (3) in figure ? *

- ☐ Face
- ☐ Side cutting edge
- ☐ End cutting edge
- ☒ Nose radius

39

A device used in the fitting shop used for holding round bars during marking/center drilling thin faces is known as *

- ☒ V-Block
- ☐ Surface Plate
- ☐ Bench Vice
- ☐ None of the above

40

Generally, which type of material is used in Hot forging? *

- ☐ None of the above
- ☐ Soft and hard both
- ☒ Hard material
- ☐ Soft Material

41

Which of the following type of wood is used in decorative purpose? *

- ☐ mahogany
- ☐ deodar
- ☒ Teak
- ☐ saal

42

Which flame is suitable for welding of ferrous metals, Cu and Al alloys? *

- ☒ Neutral flame
- ☐ None of the above
- ☐ Oxidising flame
- ☐ Carburising flame

43

List-I (Equipment)	List-II (Process)
P –Muller	1 –Cleaning
Q – Hot Chamber Machine	2 – Core
R –Sand Blaster	3 –Annealing
S – Dielectric motor	4 – Die Casting
	5 – Sand mixing

Match the items of List I (Equipment) with the items of List II (Process) and select the correct answer using the given codes- *

- ☐ P-4 Q- R-2 S-1
- ☐ P-4 Q-2 R-3 S-5
- ☐ P-2 Q-1 R-4 S-5
- ☒ P-5 Q-4 R-1 S-2

44



Identify the given tool used in forging. *

- ☒ punch tool
- ☐ swage block
- ☐ Flatter tool
- ☐ Tongs tool

45

The swage block is made up of? *

- ☐ Cast steel
- ☐ Steel
- ☒ Malleable cast iron
- ☐ Aluminum

46



According to the figure select the type of tool used in hand forging. *

- ☐ anvil tool
- ☒ fuller tool
- ☐ upsetting tool
- ☐ punching tool

47

In oxy-acetylene welding the flame temperature is *

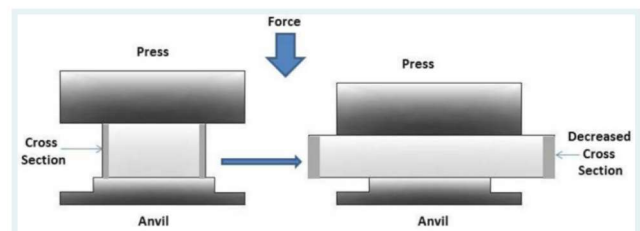
- ☐ 2000-2100°C
- ☒ 3200-3300°C
- ☐ 2500-2600°C
- ☐ 1600-1700°C

48

Generally, which type of material is used in Cold forging? *

- ☐ Soft and hard both
- ☐ hard material
- ☒ Soft material
- ☐ None of the above

49



Identify the type of operation performed during forging *

- ☒ drawing
- ☐ edging

- ☐ cutting
- ☐ Bending

50

Shrinkage allowance on the pattern is provided to compensate for shrinkage when *

- ☐ The temperature of liquid metal drops from pouring to freezing temperature
- ☐ The temperature of the metal drops from pouring to room temperature
- ☒ The temperature of the solid phase drops from freezing to room temperature
- ☐ The metal changes from liquid to solid state at freezing temperature

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