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Presidency University

Yelahanka, Bengaluru – 560 089

I Year – II Semester 2015 – 2016

COMPREHENSIVE EXAMINATION

Course No.	:	ME A102
Course Title	:	Workshop Practice
Nature of Exam	:	Practical
Weightage	:	25 % (50 Marks)
Duration	:	120 minutes

Marks Allocation

1. Aim, Tools required & Observation Table	: 10
2. Workpiece / Measurement	: 30
3. Viva	: 10
Total	**: 50**

Make a component of the given diagram (Page 2) using the following procedure

(a) Choose a suitable Machine tool/ work area to get the desired shape

(b) Collect the required hand tools/ measuring Instruments required.

(c) Manufacture the component using proper procedure

(d) Punch your ID No. on the workpiece

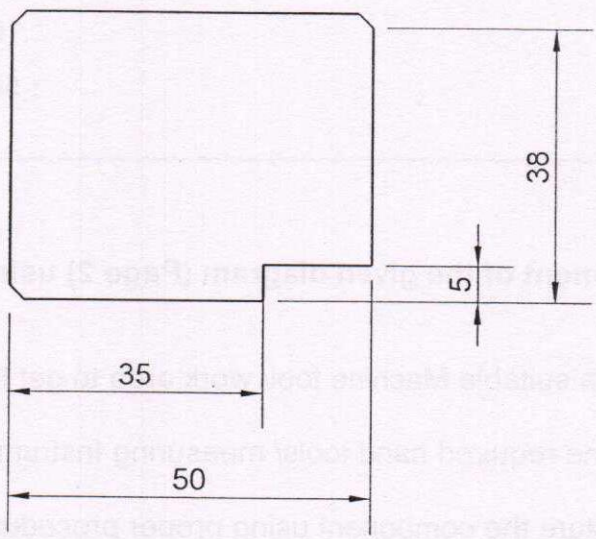
(e) Hand over the workpiece along with question paper and answer script

Note:

1. Write the aim, machine tool /work area on which the exercise is performed
2. A detailed dimension table /observation table

Don't write anything on the question paper. Also return the question paper along with the answer sheet and work piece.

FITTING



All Dimensions are in mm

01	FITTING	M.S	50 x 8	40	1	
Sl. No	Description	Matl.	Size	Length	Qty	
WORKSHOP PRACTICE (ME A102)				NOT TO SCALE		
Presidency University						

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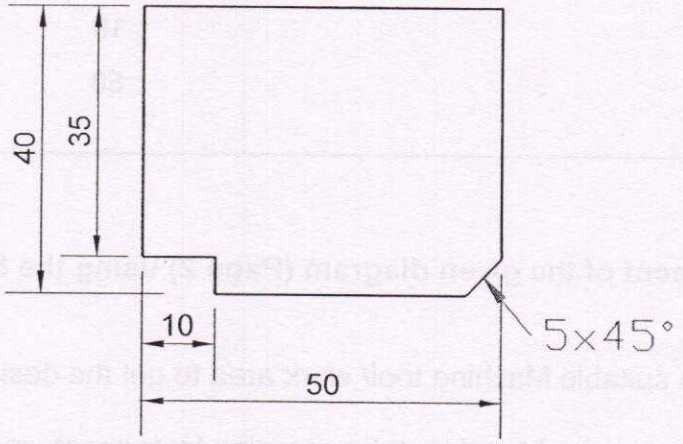
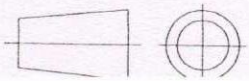


All Dimensions are in mm

01	FITTING	M.S	50 x 8	40	1	
Sl. No	Description	Matl.	Size	Length	Qty	
WORKSHOP PRACTICE (ME A102)				NOT TO SCALE		
Presidency University						

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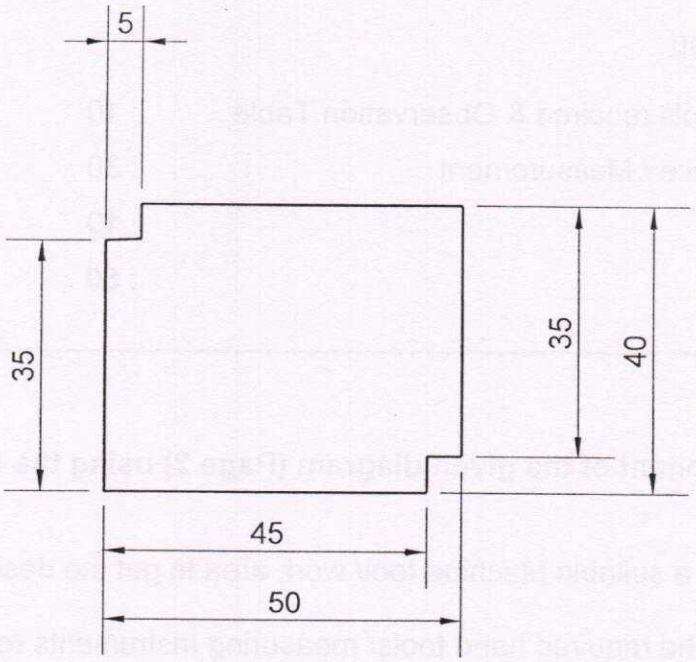
FITTING



All Dimensions are in mm

01	FITTING	M.S	50 x 8	40	1	
Sl. No	Description	Matl.	Size	Length	Qty	
WORKSHOP PRACTICE (ME A102)				NOT TO SCALE		
Presidency University						

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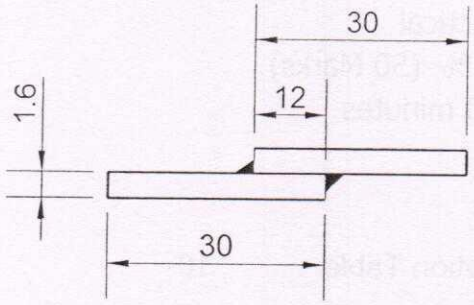
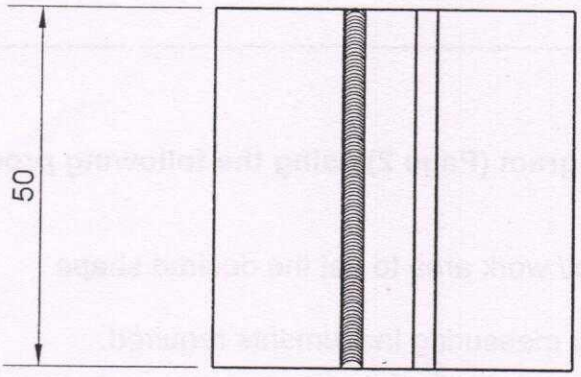
GAS WELDING





All Dimensions are in mm

01	Lap Joint	G.I	50 x 1.63	30	2	
Sl. No	Description	Matl.	Size	Length	Qty	
WORKSHOP PRACTICE (ME A102)				NTS		
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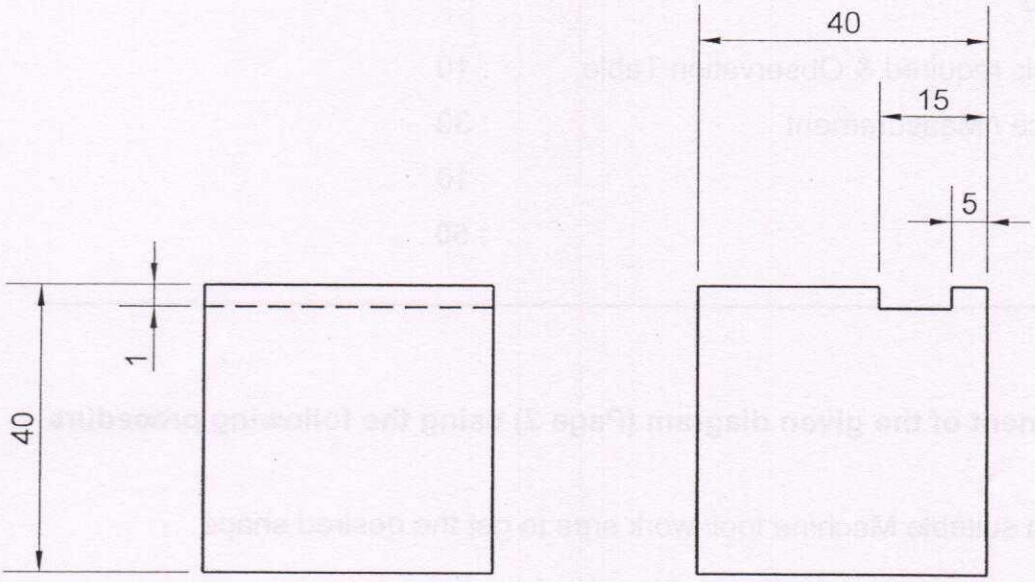
HORIZONTAL MILLING



All Dimensions are in mm

01	HORIZONTAL MILLING	M.S	40X40	40	1	
Sl. No	Description	Matl.	Size	Thick	Qty	
WORKSHOP PRACTICE (ME A102)				NTS		
Presidency University						

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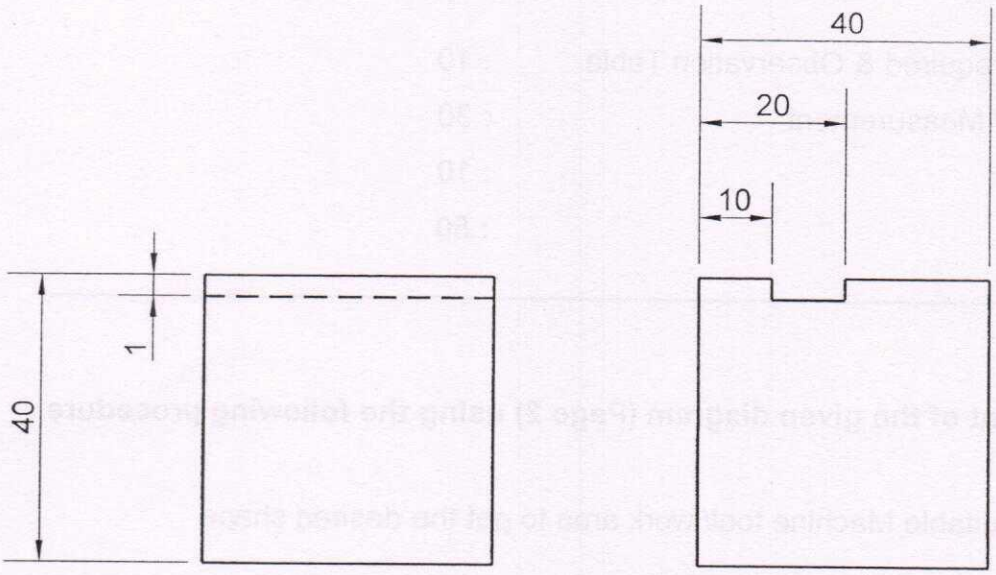

All Dimensions are in mm

01	HORIZONTAL MILLING	M.S	40X40	40	1	
Sl. No	Description	Matl.	Size	Thick	Qty	
WORKSHOP PRACTICE (ME A102)				NTS		
Presidency University						

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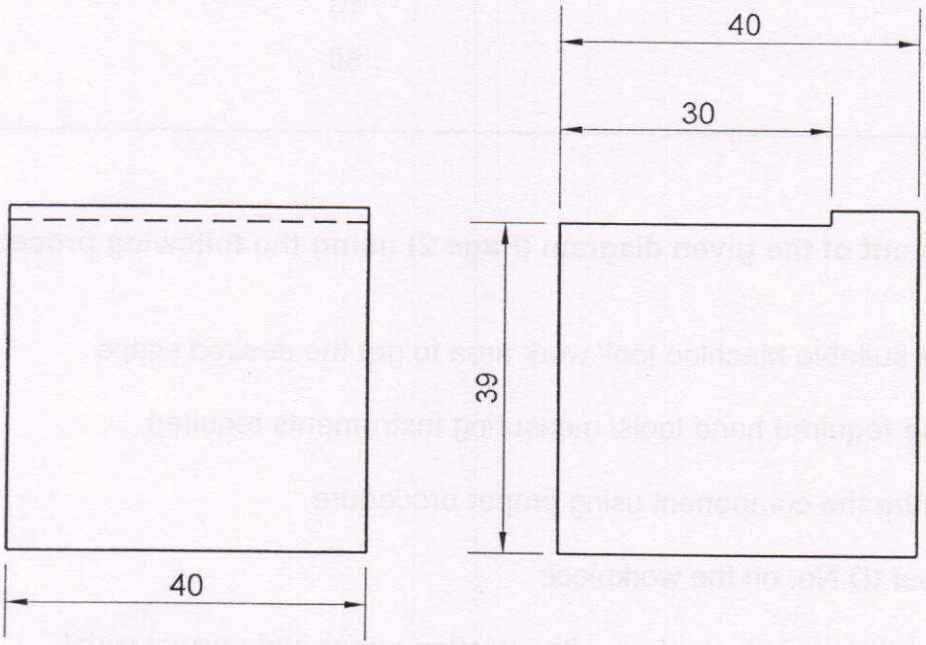
SHAPING



All Dimensions are in mm

01	SHAPING	M.S	40 x 40	40	1	
Sl. No	Description	Matl.	Size	Thick	Qty	
WORKSHOP PRACTICE (ME A102)				NTS		
Presidency University						

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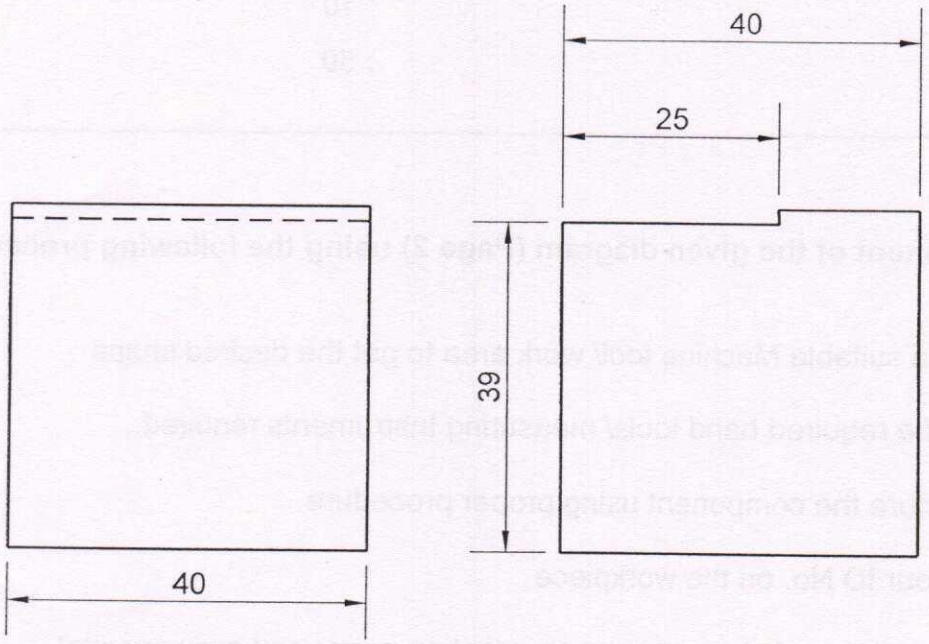
SHAPING



All Dimensions are in mm

01	SHAPING	M.S	40 x 40	40	1	
Sl. No	Description	Matl.	Size	Thick	Qty	
WORKSHOP PRACTICE (ME A102)				NTS		
Presidency University						

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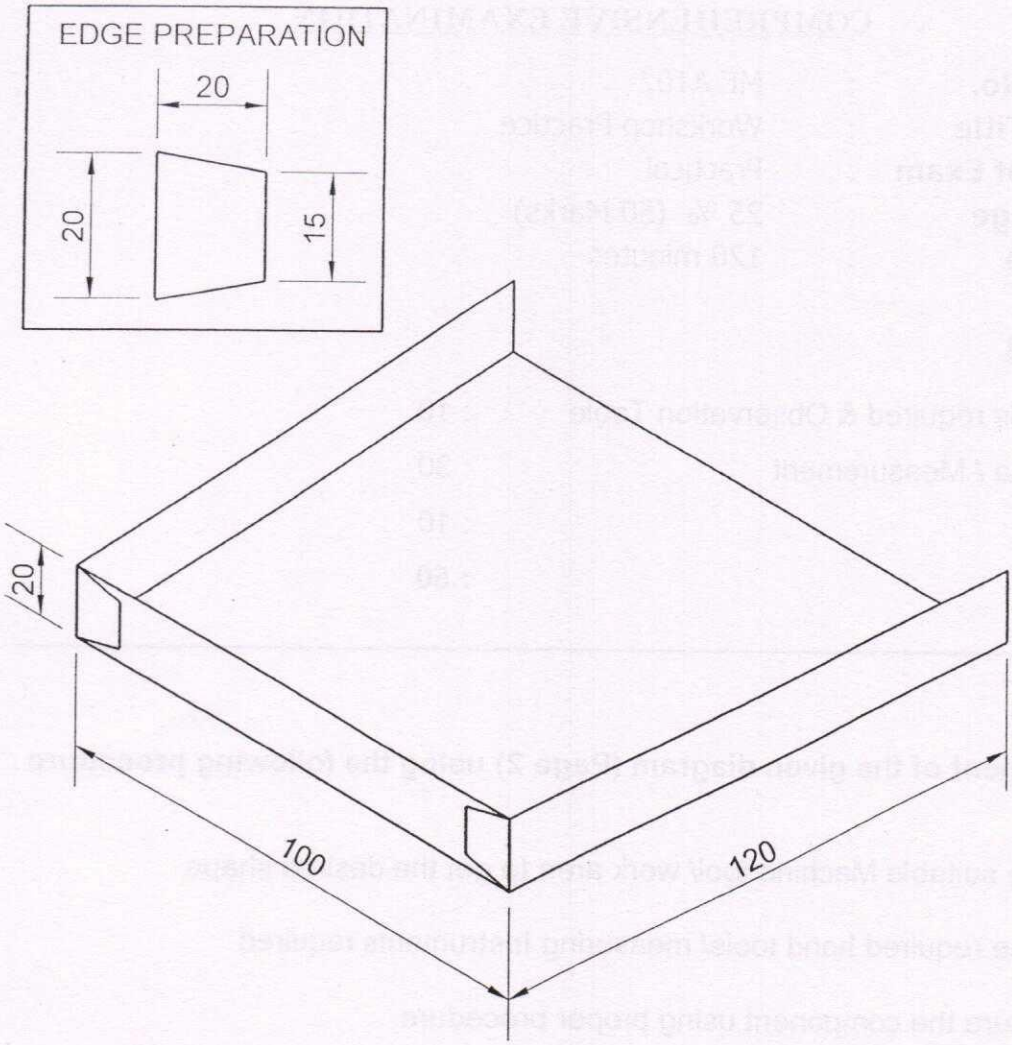
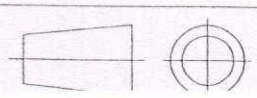
Sheet Metal



All Dimensions are in mm

01	TRAY	G.I	140x140	19 SWG	1
Sl. No	Description	Matl.	Size	Thick	Qty
WORKSHOP PRACTICE (ME A102)				NOT TO SCALE	
Presidency University					

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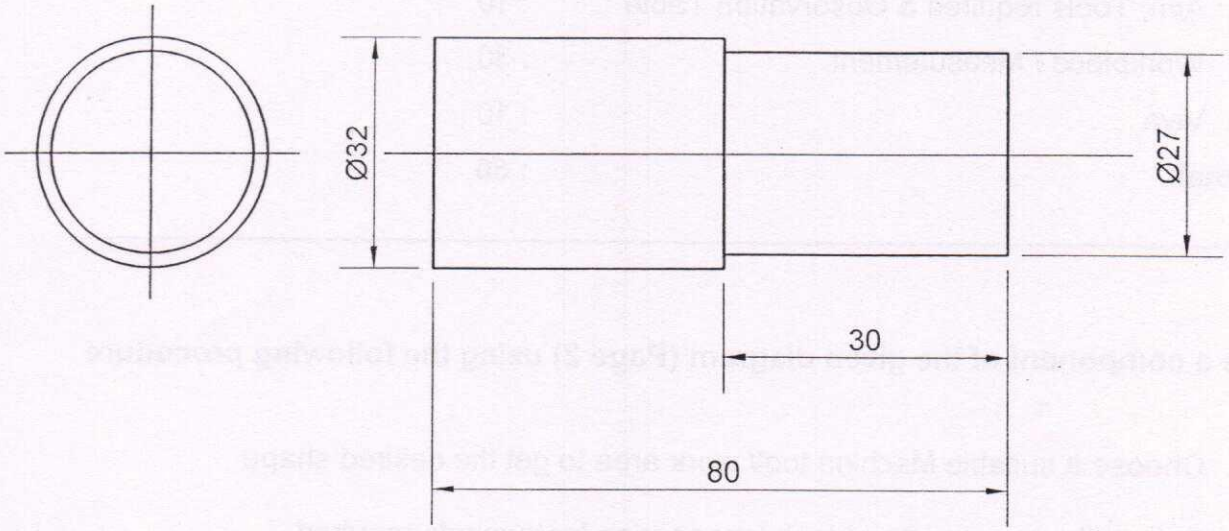
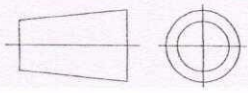
TURNING



All Dimensions are in mm

01	Turning	M S	Ø30 X 85			
Sl. No	Description	Matl.	Size			
WORKSHOP PRACTICE (ME A102)				NTS		
Presidency University						

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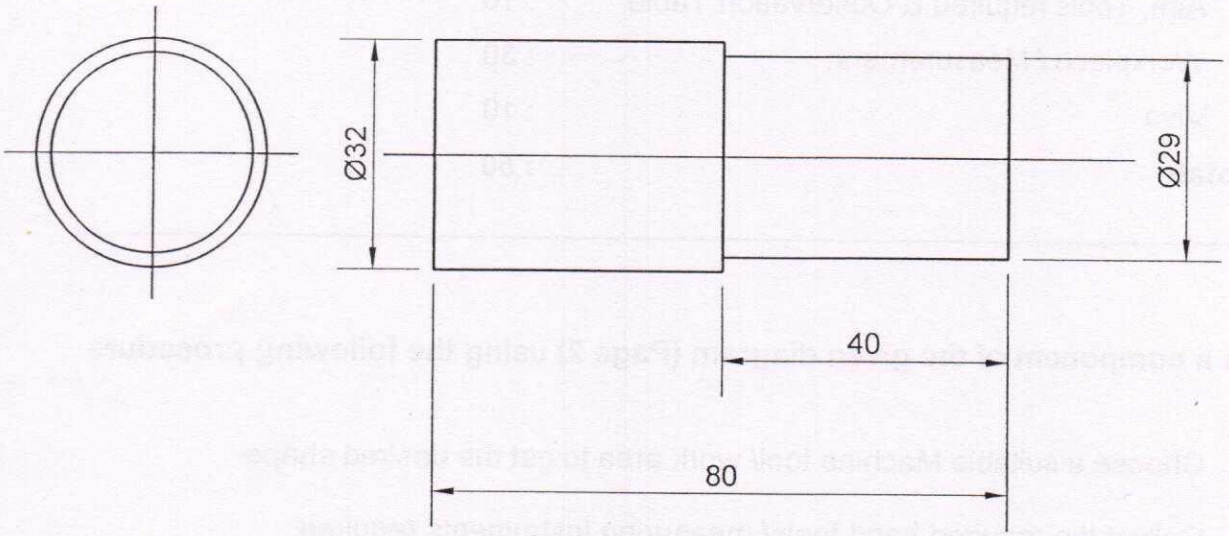
TURNING



All Dimensions are in mm

01	Turning	M S	Ø30 X 85			
Sl. No	Description	Matl.	Size			
WORKSHOP PRACTICE (ME A102)				NTS		
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1. Aim, Description of instrument & Observation Table	: 10
2. Measurement & drawing	: 30
3. Viva	: 10
Total	**: 50**

I. Find the actual dimensions of a given specimen using vernier caliper and micrometer.

II. Make a simple diagram of the measured specimens and specify the measured dimensions.

III. Hand over the question paper and answer script

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2. A detailed dimension table /observation table

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Weightage	:	25 % (50 Marks)
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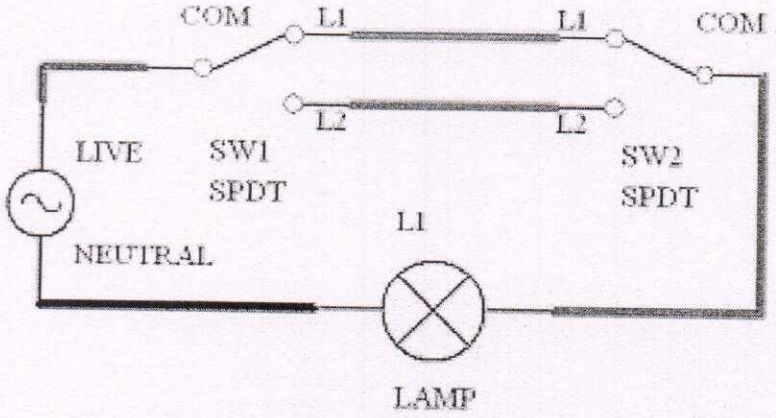
1. Aim, Tools Required & Observation Table	: 10
2. Connections & Results	: 30
3. Viva	: 10
Total	**: 50**

I. Make a wiring connection as per the following circuit and show the result to the examiner.



II. Make an observation table showing various conditions of the switches and the results.

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Duration	:	120 minutes

Marks Allocation

1. Aim, Tools Required & Observation Table	: 10
2. Connections & Identifications	: 30
3. Viva	: 10
Total	**: 50**

I. Make a plumbing connection from point A (Source) to Point B & C (a water heater & wash basin).

II. Identify the given parts and write their names with a simple sketch in the answer script.

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3. Viva	: 10
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I. Make a plumbing connection from point A & B (Source) to Point C (a mixing tap).

II. Identify the given parts and write their names with a simple sketch in the answer script.

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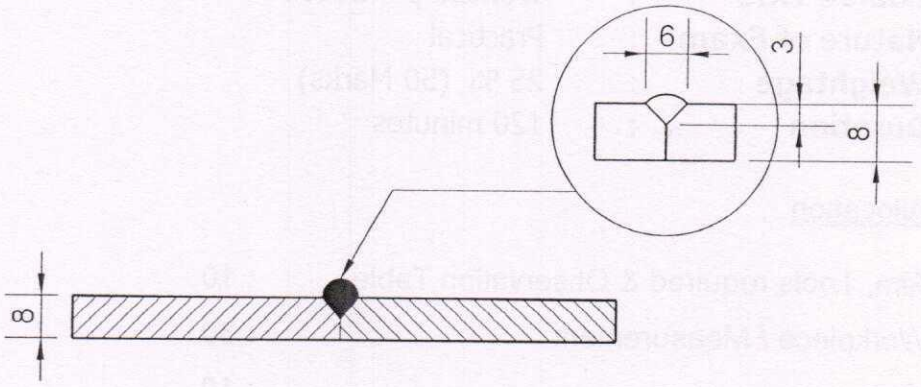
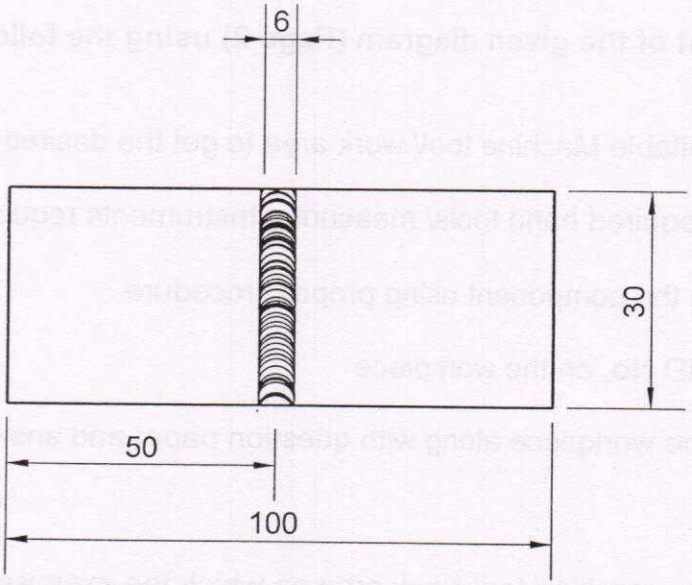
ARC WELDING





All Dimensions are in mm

01	Butt Joint	M.S	50 X8	30	2	
Sl. No	Description	Matl.	Size	Length	Qty	
WORKSHOP PRACTICE (ME A102)				NTS		
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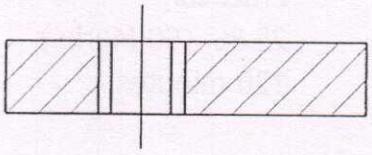
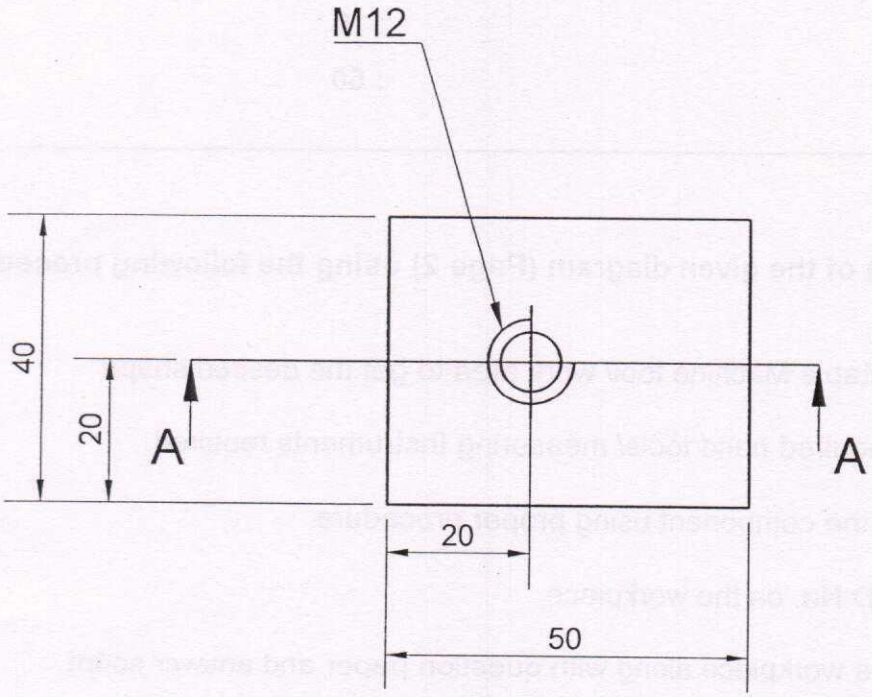
Drilling and Tapping



Section AA



All Dimensions are in mm

01	Drilling	M.S	50 x 8	40	1	
Sl. No	Description	Matl.	Size	Length	Qty	
WORKSHOP PRACTICE (ME A102)				NOT TO SCALE		
Presidency University						

Presidency University

Yelahanka, Bengaluru – 560 089

I Year – II Semester 2015 – 2016

COMPREHENSIVE EXAMINATION

Course No.	:	ME A102
Course Title	:	Workshop Practice
Nature of Exam	:	Practical
Weightage	:	25 % (50 Marks)
Duration	:	120 minutes

Marks Allocation

1. Aim, Tools required & Observation Table	: 10
2. Workpiece / Measurement	: 30
3. Viva	: 10
Total	**: 50**

Make a component of the given diagram (Page 2) using the following procedure

(a) Choose a suitable Machine tool/ work area to get the desired shape

(b) Collect the required hand tools/ measuring Instruments required.

(c) Manufacture the component using proper procedure

(d) Punch your ID No. on the workpiece

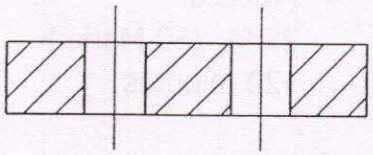
(e) Hand over the workpiece along with question paper and answer script

Note:

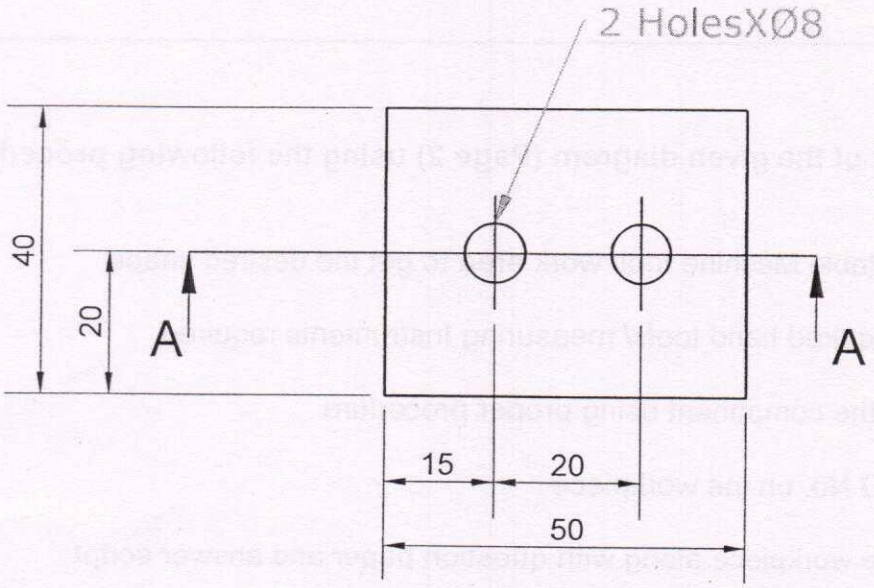
1. Write the aim, machine tool /work area on which the exercise is performed
2. A detailed dimension table /observation table

Don't write anything on the question paper. Also return the question paper along with the answer sheet and work piece.

Drilling



Section AA



All Dimensions are in mm

01	Drilling	M.S	50 x 8	40	1	
Sl. No	Description	Matl.	Size	Length	Qty	
WORKSHOP PRACTICE (ME A102)				NOT TO SCALE		
Presidency University						

ID No	_____	Section_____	Signature of Invigilator

Presidency University, Bengaluru
School of Engineering

II Semester 2015-2016 Quiz 1 Course: **ME A 102 Workshop Practice** (Closed Book)

Max Marks: 10 Max Time: 30 Min Weightage: 5 % Date 23 April 2016 **Set A**

Instructions to Candidates

1. Write legibly with pen only and do not over write. Write ID No, Section No in the designated place
2. Answer the questions in the question paper itself, no extra answer book shall be provided. Rough work can be done at the back of the sheet

Q. No.	Question (½ Mark Each)	Answer
	Hot, freshly produced chips, Hot metal parts, Molten metal and Sparks are the sources of hazards are related to (a) Explosion or Fire (b) Burn injuries (c) Body injuries (d) Damage to eye	
2.	Rolling operation falls under the category of the _____ type of manufacturing process. (a) Joining (b) Forming (c) Casting (d) Powder Metallurgy	
3.	(i). Job production is low volume and high variety. (ii). Batch production is high volume and high variety. (iii). Mass production is high volume and low variety. Which of the following sentences are true? (a) (i) and (ii) (b) (ii) and (iii) (c) (i) and (iii) (d) All the above	
4.	Which manufacturing process is used to obtain very close dimensional tolerance? (a) Casting (b) Forming (c) Joining (d) Machining	
5.	Any manufacturing activity comprises of 5 Ms to process raw material. What are these 5 Ms? (a) Men, Money, Measurement, Manufacturing Process, Methods (b) Money, Management, Measurement, Methods, Men (c) Men Material, Methods, Measurement, Management (d) Men, Material, Machinery, Money, Methods	
6.	What is the number of atoms per unit cell in Body Centred Cubic (BCC) crystal? (a) 2 (b) 4 (c) 6 (d) 8	
7.	A type of joint used in soldering of two parts is (a) Temporary joint (b) Semi-permanent joint (c) Permanent joint (d) None of the above	

8.	Which of the following operations uses a form tool? a) Facing (b) Reaming c) Knurling (d) Turning	
9.	If in a turning operation the depth of cut is given as 1.25mm then diameter is reduced by a) 2.6mm (b) 2.5mm c) 2.25mm (d) 1.25mm	
10.	Which of the following lathes is used for machining objects with large diameters ? a) Tool room lathe (b) Turret lathe c) Gap-bed lathe (d) Any of the above	
11.	Which part carries all the driving mechanisms in case of lathe? a) Feed rod / lead screw (b) Tailstock c) Headstock (d) Carriage	
12.	Three jaw chuck is also called as a) Simultaneous movement chuck (b) Universal chuck c) Self-centering chuck (d) Both b and c	
13.	Which of the following is not a part of carriage? a) Apron (b) Quill c) Cross slide (d) Compound rest	
14.	In the milling process, length of approach depends upon: (a) Diameter of the milling cutter (b) Depth of cut used (b) Both (a) and (b) (d) Neither (a) or (b)	
15.	In a milling operation, length of cut is 360 mm and feed rate is 180 mm/min. Then milling time in minutes is: (a) 4 (b) 0.5 (c) 2.0 (d)Insufficient data	
16.	In the milling process, _____ milling provides better surface finish and _____ milling provides longer tool life (a) Up, up (b) Up, down (c) Down, up (d) Down, down	
17.	Which of the following is /are true for the grinding operation? (a) Depth of cut is small (b) Feed is small © Speed is high (d) All the above	
18.	Which abrasive grain size is finest? (a) 10 (b) 50 (c) 100 (d) 500	
19.	Polishing is done on a workpiece to: (a) Improve the appearance of the workpiece (b) To remove scratches (c) To remove minor imperfections (d) All the above	
20.	Riser in a mould should be located in such a way that: (a) It is first to receive molten metal (b) It is last to solidify (b) It is first to solidify (d) It is not to receive molten metal	

ID No	_____	Section_____	Signature of Invigilator

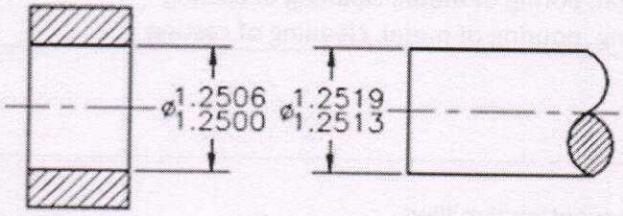
Presidency University, Bengaluru
School of Engineering

II Semester 2015-2016 Quiz 1 Course: **ME A 102 Workshop Practice**
(Closed Book)

Max Marks: 10 Max Time: 30 Min Weightage: 5 % Date 23 April 2016 **Set B**

Instructions to Candidates

1. Write legibly with pen only and do not over write. Write ID No, Section No in the designated place
2. Answer the questions in the question paper itself, no extra answer book shall be provided. Rough work can be done at the back of the sheet

Q. No.	Question (½ Mark Each)	Answer
1.	1. Match the following: (a) Factor of Safety for ductile material — i. $\frac{Change\ in\ length}{Original\ length}$ (b) Factor of Safety for brittle material — ii. $\frac{Yield\ strength}{Design\ Strength}$ (c) Axial Strain — iii. $\frac{Change\ in\ diameter}{Original\ diameter}$ (d) Transverse Strain — iv. $\frac{Utlimate\ strength}{Design\ Strength}$	
2.	A material failure because of neck formation and subsequent void generation after application of force is observed in (a) Creep failure (b)Fatigue failure (c) Ductile failure (d) Brittle failure	
3.	30 gram of silver can create 90 km wire. An important property responsible for this application is (a) Malleability (b) Toughness (c) Ductility (d) Resilience	
	What is the percentage of carbon in mild steel? (a) 0.3 – 0.5 % (b) 0.7 – 0.9 % (c) 1.1 – 1.5 % (d) 0.05 – 0.3 %	
5.	Stress-strain curve is highly non-linear after (a) Elastic limit (b) Proportional limit © Yield limit (d) Ultimate limit	
6.	Identify the type of fit for below figure1  Fig. 1 (a) Clearance fit (b) Interference fit (c) Transition fit (d) Cannot be determined	

7.	Which type of inspection is used to reduce wastage of material and to assure good quality throughout the manufacturing process? (a) Quality inspection (b) In-process inspection (c) Post process inspection (d) Pre-production inspection	
8.	Which of the following material is used for making lathe bed ? (a) Mild Steel (b) Stainless Steel (c) Alloy Steel (d) None of the above	
9.	Which of the following drilling machine is used for making very long holes? (a) Gang Drilling (b) Radial Drilling Machine (c) Gun Drilling (d) Portable Drilling Machine	
10.	Which of the following is done to obtain good surface finish (a) Reaming (b) Boring (c) Drilling (d) All of the above	
11.	Which of the following operations is done for occupying bolt head or nut? (a) Counter sinking (b) Counter boring (c) Tapping (d) Boring	
12.	Arrange the following operations according to the sequence in which they should be performed . (a) Tapping (b) Drilling (c) Reaming (d) Boring	
13.	Which of the following is not a part of the drill tool? (a) Neck (b) Shank (c) Elbow (d) Body	
14.	In a drilling operation the size of the hole produced is usually a) Slightly larger than the diameter of the drill bit b) Slightly smaller than the diameter of the drill bit c) Equal to the diameter of the drill bit d) None of the above	
15.	For a large quantity production of a castings, the best suited pattern material will be: (a) Wood (b) Metal (c) Plastic (d) Polystyrene	
16.	For preventing foreign particles to enter into the mould cavity which foundry tool is used? (a) Vent rod (b) Draw spike (c) Riddle (d) Trowel	
17.	Pick the odd tool out: (a) Hand rammer (b)Strike rod (c) Shovel (d) Fuller	
18.	The sequence of operations involved in producing a solid metal casting using sand moulding is: (a) Mould making, pattern making, melting of metal, poring of metal, cleaning of casting (b) Pattern making, melting of metal, pouring of metal, mould making, cleaning of casting (c) Pattern making, mould making, melting of metal, poring of metal, cleaning of casting (d) Pattern making, melting of metal, mould making, pouring of metal, cleaning of casting	
19.	Identify the negative allowance on the pattern: (a) Shrinkage (b) Machining (c) Rapping or shake (d) Draft	
20.	Down milling is also known as (a) Climb milling (b) Conventional milling (c)Conventional climb milling (d) None of the above	

ID No	_____	Section_____	Signature of Invigilator

Presidency University, Bengaluru
School of Engineering

II Semester 2015-2016 Quiz 1 Course: **ME A 102 Workshop Practice**
(Closed Book)

Max Marks: 10 Max Time: 30 Min Weightage: 5 % Date 23 April 2016 **Set C**

Instructions to Candidates

1. Write legibly with pen only and do not over write. Write ID No, Section No in the designated place
2. Answer the questions in the question paper itself, no extra answer book shall be provided. Rough work can be done at the back of the sheet

Q. No.	Question (½ Mark Each)	Answer
	Tool life in orthogonal cutting is (a) more than the tool life in oblique cutting (b) less than the tool life in oblique cutting (c) equal to the tool life in oblique cutting (d) cannot say	
2.	What is the use of rake angle in metal cutting operation? (a) To prevent rubbing of finished part of workpiece (b) To provide surface for chip flow (c) To provide inlet for cutting fluid (d) To provide better cutting tool position	
3.	Find odd man out. (a) Parting cutter, Threading cutter, End mill cutter, Drill bit (b) Turning tool, Knurling tool, Slitting cutter, Form cutter (c) Knurling cutter, Form cutter, Involute gear cutter, Reamer (d) Reamer, Convex gear cutter, Threading cutter, Parting cutter	
	Slope of log v versus log T graph in Taylor's equation is (a) Positive (b) Negative (c) Zero (d) None of the above	
5.	If velocity of HSS tool is doubled and tool life is reduced to one-eighth times, what is the value of n? (a) 0.66 (b) 0.33 (c) 0.5 (d) 0.2	
6.	If cutting speed during turning increases, heat carried by chips (a) Increase (b) Decrease (c) Decreases and then increases (d) Increases and then decreases	
7.	Which of the following is not an alloying elements used to improve properties of Plain carbon Steel? (a) Manganese (b) Silicon (c) Nickel (d) Columbium	

8.	In a planer work, the length of stroke is 3000mm, number of doublesroke/min is 15 and cutting time to return time is 3 : 2. The cutting speed is a) 112.5 m/min (b) 75 m/min c) 15 m/min (d) None of the above	
9.	The return stroke time to forward stroke time is always a) > 1 (b) = 1 c) < 1 (d) None of the above	
10.	The driving mechanism of the shaping machine is located in a) base (b) table c) ram (d) column	
11.	Which of the following is true during return stroke of shaping machine a) Tool moves faster as compared to the forward stroke b) It does not perform the cutting action c) Neither a or b d) Both a and b	
12.	Machine tool used for mass production is a) Shaping machine (b) Planing machine c) Slotting machine (d) none of the above	
13.	Which of the following is a form tool? a) Counter bore (b) Tap c) Counter sink (d) Reamer	
14.	Helical grooves on the surface of the drill are called a) body (b) flute c) chute (d) shank	
15.	The cutting time for cutting a 135 mm long key way using HSS end mill having feed rate of 254 mm/min and 636 rpm is _____. Assume negligible approach and over travel. (a) 0.45 min (b) 0.25 min (c) 0.53 min (d) 0.60 min	
16.	Match the following Abrasive — Example (a) Natural abrasive — i) silicon carbide (b) Synthetic abrasives — ii) Emery iii) aluminium oxide iv) Quartz	
17.	The RPM of the milling cutter having diameter 100 mm with cutting speed 30 m/min is _____ (a) 80 (b) 75 (c) 100 (d) 120	
18.	The molten metal enters into the casing after passing through the gating system in this order (a) Sprue base, sprue, runner, gate (b) Sprue, sprue base, runner, gate (c) Sprue base, sprue, riser, gate (d) Sprue, riser, runner, gate	
19.	In casting, blow hole results when sand is lacking: (a) Permeability (b) Followability (c) Refractoriness (d) Cohesiveness	
20.	Which of the following determines the ability of a grinding wheel to remain sharp? (a) Structure (b) Grit size (c) Grain size (d) Grade	

Set 1

ID NO.		SECTION_____	Signature of Invigilator

Presidency University, Bengaluru
School of Engineering

II Semester 2015-16 QUIZ-II COURSE: **ME A102 WORKSHOP PRACTICE (CLOSED BOOK)**

Max Marks: 5 Max time: 10 Min Weightage : 5% Date:

Q.No.	Question (one mark each)	Answer
1	The process of manufacturing a component by removing the unwanted material using a machine is known as _____ a. Casting b. Machining c. Forming d. Joining	
2	Machines on which metal cutting operations are carried out are known as _____ a. Machine tools b. Cutting tools c. All the above d. None of the above	
3	Grinding machines are bigger in size	
4	In grinding operations, abrasives with coarse grit are used for rough surface	
5	In the lapping process, lap is made of a material that is harder than the workpiece	

Set 2

ID NO.		SECTION_____	Signature of Invigilator

Presidency University, Bengaluru
School of Engineering

II Semester 2015-16 QUIZ-II COURSE: **ME A102 WORKSHOP PRACTICE (CLOSED BOOK)**

Max Marks: 5 Max time: 10 Min Weightage : 5% Date:

Q.No.	Question (one mark each)	Answer
1	Shaper, planer, slotter are the machines which produces _____ type of surface. a. Curved b. Flat c. Both d. None of a and b	
2	Lathe, milling, shaper are _____ machines under the category of types of energy used. a. Non-conventional b. Conventional c. Automatic d. Manual	
3	Oblique cutting is also called as a. 1-D cutting b. 2-D cutting c. 3-D cutting d. 4-D cutting	
4	Abrasive is a non-metallic material	
5	Reduced wheel speed reduces residual	

ID NO.		SECTION	Signature of Invigilator

Set 3

Presidency University, Bengaluru
School of Engineering

II Semester 2015-16 QUIZ-II COURSE: **ME A102 WORKSHOP PRACTICE (CLOSED BOOK)**

Max Marks: 5 Max time: 10 Min Weightage : 5% Date:

Q.No.	Question (one mark each)	Answer
1	To measure flatness, _____ is used a. Sine bar b. Comparator c. Optical flat d. Vernier calliper	
2	To measure dimensions in mass production, _____ is used. a. Direct measuring instruments b. Gauges c. Indirect measuring instruments d. All of the above	
3	In _____ measuring instruments, assistance of another measuring instrument is required to get the measurement. a. Direct b. Indirect c. Gauges All of the above	
4	If the clearance between the punch and die is increased in the blanking operation, then more force is required to do the blanking.	
5	The filler material, commonly used in soldering is an alloy of tin and zinc.	

ID NO.		SECTION	Signature of Invigilator

Set 4

Presidency University, Bengaluru
School of Engineering

II Semester 2015-16 QUIZ-II COURSE: **ME A102 WORKSHOP PRACTICE (CLOSED BOOK)**

Max Marks: 5 Max time: 15 Min Weightage : 5% Date:

Q.No.	Question (one mark each)	Answer
1	Abundant supply of coolant must be made during coining operation.	
2	Scrap of blanking is the workpiece of piercing	
3	Deep drawing is used for making wires.	
4	Cooking utensils can be manufactured by metal spinning	
5	The recrystallization temperature of steel is	

ID NO.		SECTION	Signature of Invigilator

Set 5

Presidency University, Bengaluru
School of Engineering

II Semester 2015-16 QUIZ-II COURSE: **ME A102 WORKSHOP PRACTICE (CLOSED BOOK)**

Max Marks: 5 Max time: 10 Min Weightage : 5% Date:

Q.No.	Question (one mark each)	Answer
1	The hot working of metals is carried out a. At the recrystallization temperature b. Below the recrystallization temperature c. Above the recrystallization temperature d. At any temperature	
2	Metal patterns are used for a. Small castings b. Large castings c. Complicated castings d. Large scale production of castings	
3	Structural sections such as rails, angles, I-beams are made by a. Hot rolling b. Hot drawing c. Hot piercing d. Hot extrusion	
4	Intermediate flask section in castings is known as cheek	
5	If moulding boxes are made in three sections, then the bottom one is called cheek	

ID NO.		SECTION	Signature of Invigilator

Set 6

Presidency University, Bengaluru
School of Engineering

II Semester 2015-16 QUIZ-II COURSE: **ME A102 WORKSHOP PRACTICE (CLOSED BOOK)**

Max Marks: 5 Max time: 10 Min Weightage : 5% Date:

Q.No.	Question (one mark each)	Answer
1	End milling cuter carries out machining of flat surfaces on a milling machine.	
2	The saddle supports the work table in the milling machine	
3	In the down milling, the cutter teeth move in a direction opposite to the feed of the work	
4	The teeth of hacksaw blade are bent a. Towards right b. Towards left c. Alternately towards right and left and every third or fourth left straight d. May be bent in any direction	
5	Blow holes in castings are due to a. Low permeability of sand b. Excessive fine grains and gas producing ingredients c. High moisture content of the sand	

ID NO.		SECTION_____	Signature of Invigilator

Set 7

Presidency University, Bengaluru
School of Engineering

II Semester 2015-16 QUIZ-II COURSE: **ME A102 WORKSHOP PRACTICE (CLOSED BOOK)**

Max Marks: 5 Max time: 10 Min Weightage : 5% Date:

Q.No.	Question (one mark each)	Answer
1	What is the product of Cupola? a. Zinc b. Copper c. Lead d. Wrought iron	
2	Cold working of metal increases a. Tensile strength b. Yield strength c. Hardness d. All of these	
3	Which of the following is the main constituents of moulding sand? a. Silica b. Alumina c. Iron oxide Clay	
4	In the case of a single gate, a runner may not be required	
5	Fins are casting defects at the parting line, caused due to defective dowel pins in the case of split patterns	

ID NO.		SECTION_____	Signature of Invigilator

Set 8

Presidency University, Bengaluru
School of Engineering

II Semester 2015-16 QUIZ-II COURSE: **ME A102 WORKSHOP PRACTICE (CLOSED BOOK)**

Max Marks: 5 Max time: 10 Min Weightage : 5% Date:

Q.No.	Question (one mark each)	Answer
1	In continuous rolling, mill rolls at each stand have same speed.	
2	Indirect extrusion requires more force than the direct extrusion.	
3	Collapsible tubes can be manufactured by impact extrusion	
4	The mass production of steel glasses is done by deep drawing	
5	External screw thread can be produced by a. Casting b. Shaping c. Milling	

ID NO.		SECTION_____	Signature of Invigilator

Set 9

Presidency University, Bengaluru
School of Engineering

II Semester 2015-16 QUIZ-II COURSE: **ME A102 WORKSHOP PRACTICE (CLOSED BOOK)**

Max Marks: 5 Max time: 10 Min Weightage : 5% Date:

Q.No.	Question (one mark each)	Answer
1	Imperfect fusion of metal in the mould cavity results in a defect called cold shut	
2	Best suited manufacturing process for very large size components is a. Machining b. Joining c. Forming d. Casting	
3	Hot tears in castings are caused by a. High dry and hot strength of mould b. Excessive mould hardness c. Either of the above d. None of the above	
4	In the down milling, chips thickness is more in the beginning of cut	
5	Arbor mounted milling cutters cannot be used on vertical milling machines	

ID NO.		SECTION_____	Signature of Invigilator

Set 10

Presidency University, Bengaluru
School of Engineering

II Semester 2015-16 QUIZ-II COURSE: **ME A102 WORKSHOP PRACTICE (CLOSED BOOK)**

Max Marks: 5 Max time: 10 Min Weightage : 5% Date:

Q.No.	Question (one mark each)	Answer
1	Milling machine can be used for making threads on external surfaces	
2	In the down milling, cutting forces tends to hold the workpiece against the machine table	
3	In the plain milling operation, the cutter experiences an impact load.	
4	Up milling gives better surface finish than the down milling	
5	Bloom is usually of square cross section with cross sectional area more than 225 sq.cm	

ID NO.		SECTION	Signature of Invigilator

Presidency University, Bengaluru

School of Engineering

Set 11

II Semester 2015-16 QUIZ-II COURSE: **ME A102 WORKSHOP PRACTICE (CLOSED BOOK)**

Max Marks: 5 Max time: 10 Min Weightage : 5% Date:

Q.No.	Question (one mark each)	Answer
1	The ability of metal to resist deformation is a. Ductility b. Stiffness c. Malleability d. Resilience	
2	The adhesiveness is the property of sand due to which a. It evolves a great amount of steam and other gases b. The sand grains stick together c. It clings to the sides of a moulding box d. None of these	
3	The temperature at which the new grains are formed in the metal is called a. Lower critical temperature b. Upper critical temperature c. Eutectic temperature d. Recrystallization temperature	
4	A three high rolling mill consists of three rolls placed one above the other. Which of the following statement is correct? a. The upper and middle rolls rotate in the same direction whereas the bottom roll rotates in opposite direction b. The upper and bottom rolls rotate in the same direction whereas the middle roll rotates in opposite direction c. The bottom and middle roll rotate in the same direction d. Any one of the above	
5	A pattern maker's shrinkage rule considers a. All pattern allowances b. Only shrinkage allowance c. All materials to be cast d. All materials of the pattern	

ID NO.		SECTION	Signature of Invigilator

Presidency University, Bengaluru

School of Engineering

Set 12

II Semester 2015-16 QUIZ-II COURSE: **ME A102 WORKSHOP PRACTICE (CLOSED BOOK)**

Max Marks: 5 Max time: 10 Min Weightage : 5% Date:

Q.No.	Question (one mark each)	Answer
1	The property of sand due to which the sand grains stick together is called a. Collapsibility b. Permeability c. Cohesiveness d. Adhesiveness	
2	Change in length is a. $\Delta L = \frac{FL_o}{A_o E}$ b. $\Delta L = \frac{FE}{A_o L_o}$ c. $\Delta L = \frac{FA_o}{L_{oE}}$ d. $\Delta L = \frac{EL_o}{A_o F}$	
3	Drop forging is more accurate process than the press forging	
4	Operation of removing of material from the edge of a sheet is known as notching	
5	Coining is a ...	

ID NO.		SECTION	Signature of Invigilator

Set 13

Presidency University, Bengaluru
School of Engineering

II Semester 2015-16 QUIZ-II COURSE: **ME A102 WORKSHOP PRACTICE (CLOSED BOOK)**

Max Marks: 5 Max time: 15 Min Weightage : 5% Date:

Q.No.	Question (one mark each)	Answer
1	Strip refers to a rolled product with width less than 300 mm	
2	Selection of manufacturing process depends upon a. Volume of production b. Economy c. Technical viability d. All the above	
3	Pipes can be manufactured by centrifugal casting.	
4	Hindered contraction of the metal during solidification causes a defect, hot tears	
5	An example of temporary joint is a. Soldering b. Brazing c. Welding Screw and nut	

ID NO.		SECTION	Signature of Invigilator

Set 14

Presidency University, Bengaluru
School of Engineering

II Semester 2015-16 QUIZ-II COURSE: **ME A102 WORKSHOP PRACTICE (CLOSED BOOK)**

Max Marks: 5 Max time: 10 Min Weightage : 5% Date:

Q.No.	Question (one mark each)	Answer
1	Abrasive is a non-metallic material	
2	Reduced wheel speed reduces residual stress on the workpiece	
3	Lap is harder than the workpiece material	
4	Lapping is a material removal process	
5	Aluminium oxide is best suited abrasive for grinding steel	

ID NO.		SECTION	Signature of Invigilator

Presidency University, Bengaluru
School of Engineering

Set 15

II Semester 2015-16 QUIZ-II COURSE: **ME A102 WORKSHOP PRACTICE (CLOSED BOOK)**

Max Marks: 5 Max time: 10 Min Weightage : 5% Date:

Q.No.	Question (one mark each)	Answer
1	_____ is the amount of geometric irregularity produced on the surface of an object during fabrication. a. Tolerance b. Precision c. Accuracy d. Surface finish	
2	The probability of a product functioning in the manner over its intended life under the normal operating conditions is a. Accuracy b. Interchangeability c. Reliability d. Quality	
3	Which statement id true for a comparator? a. It gives the measurement of dimensions of a part b. It gives deviation from the actual size c. It works on the same principle as that of gauges d. None of the above	
4	Readings obtained by an instrument are as follows: 20.30, 20.31 and 20.29. the instrument is a. More accurate b. More precise c. Lacks precision d. Lacks accuracy	
5	Physical properties of metal includes a. Light weight pen made by plastic b. Wire with good electrical conductivity c. Both a and b d. Neither a nor b	

ID NO.		SECTION	Signature of Invigilator

Presidency University, Bengaluru
School of Engineering

Set 16

II Semester 2015-16 QUIZ-II COURSE: ME A102 WORKSHOP PRACTICE (CLOSED BOOK)

Max Marks: 5 Max time: 10 Min Weightage : 5% Date:

Q.No.	Question (one mark each)	Answer
1	Mechanical properties of metal includes a. Strength b. Corrosion resistance c. Both a and b d. Only a	
2	Read two sentences: i. Difference between maximum size of hole and minimum size of shaft is positive. ii. Difference between minimum size of hole and maximum size of shaft is positive. What type of fit is generated with this condition? a. Clearance b. Transition c. Interference d. None of the above	
3	Lapping is done prior to grinding	
4	Rapping allowance is more important in the case of a small sized castings	
5	Core sand should be stronger than the moulding sand	

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Presidency University, Bengaluru
School of Engineering

Set 17

II Semester 2015-16 QUIZ-II COURSE: **ME A102 WORKSHOP PRACTICE (CLOSED BOOK)**

Max Marks: 5 Max time: 10 Min Weightage : 5% Date:

Q.No.	Question (one mark each)	Answer
1	Polishing wheels are made from very hard abrasive materials	
2	Drilling operation cannot be done on the milling machine	
3	An object with size 25.00 [-0.05][+0.00] is an example of a. Unilateral tolerance b. Bilateral tolerance c. Fits d. None of the above	
4	An object with size 25.00 [-0.05][+0.05] is an example of a. Unilateral tolerance b. Bilateral tolerance c. Fits d. None of the above	
5	The selection of tolerance is depends upon a. The nominal size b. Types of fit required c. Both a and b d. Neither a nor b	

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Sect 18

II Semester 2015-16 QUIZ-II COURSE: **ME A102 WORKSHOP PRACTICE (CLOSED BOOK)**

Max Marks: 5 Max time: 10 Min Weightage : 5% Date:

Q.No.	Question (one mark each)	Answer
1	_____ is an acceptance of error in manufacturing. a. Limits and fits b. Tolerance c. Allowance d. Metrology	
2	ISO stands for a. International systems organization b. International organization of standards c. International standard of units d. International standards organization	
3	Metrology is the science of _____ a. Quality b. Quality control c. Measurement d. Inspection	
4	The concept of 'Do the things right at the first time' is basis for a. Best quality b. Zero quality control c. Quality control d. Optimum quality control	
5	The distance advanced by the tool for each revolution of the work is a. Cutting speed b. Feed	

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Set 19

II Semester 2015-16 QUIZ-II COURSE: **ME A102 WORKSHOP PRACTICE (CLOSED BOOK)**

Max Marks: 5 Max time: 10 Min Weightage : 5% Date:

Q.No.	Question (one mark each)	Answer
1	Tool steel contains a. 0.3-0.8 % carbon b. 0.8-1.5 % carbon c. 1.5-2.0 % carbon d. 2.0-3.0 % carbon	
2	_____ is the hardest material ever known. a. CBN b. Diamond c. Ucon Ceramic	
3	Material removal rate is high in _____ a. Single point cutting tool b. Multipoint cutting tool c. Both of the above d. None of the above	
4	Most preferred material for continuous chips are a. Ductile material b. Brittle material c. All the above d. None of the above	
5	Heat dissipation in any machining processes is carried by a. Chips b. Tool c. Workpiece d. All the above	

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Set 20

II Semester 2015-16 QUIZ-II COURSE: **ME A102 WORKSHOP PRACTICE (CLOSED BOOK)**

Max Marks: 5 Max time: 10 Min Weightage : 5% Date:

Q.No.	Question (one mark each)	Answer
1	Most preferred material for continuous chips with built-up edge are a. Larger depth of cut b. Low speed c. High feed d. Both a and b	
2	Which of the following operations is different from others? a. Knurling b. Facing c. Turning d. Grooving	
3	The machining time in shaping machine depends on a. width of workpiece b. feed c. RPM d. All of the above	
4	State whether true or false. Lathe can be used for thread cutting.	
5	Which of the following is not a form tool? a. Knurling tool b. Tap c. Reamer d. Thread rolling die	

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Set 21

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II Semester 2015-16 QUIZ-II COURSE: **ME A102 WORKSHOP PRACTICE (CLOSED BOOK)**

Max Marks: 5 Max time: 10 Min Weightage : 5% Date:

Q.No.	Question (one mark each)	Answer
1	For producing accurate holes the sequence of operations is : a. Centering , drilling, boring, reaming b. Centering , boring, drilling, reaming c. Drilling, Centering, boring, reaming d. Drilling, reaming, boring, centering	
2	Which of the following are functions of tailstock? a. To support long and heavy workpieces b. For thread cutting c. Both a and b d. Guiding the workpiece	
3	Which of the following lathes is used for small jobs or workpieces. a. Tool room lathe b. Bench lathe c. Gap-bed lathe d. Turret lathe	
4	State whether true or false. In a planing machine the operating conditions are defined in the same way as shaper.	
5	State whether true or false. The point angle is higher for machining hard materials as compared to soft materials.	

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Set 22

Presidency University, Bengaluru
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II Semester 2015-16 QUIZ-II COURSE: **ME A102 WORKSHOP PRACTICE (CLOSED BOOK)**

Max Marks: 5 Max time: 10 Min Weightage : 5% Date:

Q.No.	Question (one mark each)	Answer
1	Which of the following are parts of a drill ? a. Body b. Shank c. Neck d. All the above	
2	In lathe the workpiece always a. Rotates towards the operator b. Rotates away from the operator c. Any direction is ok. d. None of the above	
3	Which of the following is used to provide depth of cut during turning? a. Apron b. Swivel post c. Cross-slide d. Compound rest	
4	State whether true or false. A tap can be used for machining both internal as well as external threads.	
5	In a planing machine, the tool reciprocates while workpiece is stationary. State ...	

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Set 25

Presidency University, Bengaluru
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II Semester 2015-16 QUIZ-II COURSE: **ME A102 WORKSHOP PRACTICE (CLOSED BOOK)**

Max Marks: 5 Max time: 10 Min Weightage : 5% Date:

Q.No.	Question (one mark each)	Answer
1	The four jaw chuck is also called as a. Free movement chuck b. Independent jaw chuck c. Separate movement chuck d. None of the above	
2	The table in a milling machine has a. I slots b. H slots c. T slots d. None of the above	
	In a slotting machine, time required to complete one double stroke is given by a. t = L(1+m)/(1000v) b. t = LW(1+m)/(1000vf) c. t = W/fN d. None of the above	
4	State whether true or false. The size of a shaping machine depends on the maximum stroke length of ram.	
5	State whether true or false. Boring tool is a multipoint cutting tool.	

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Set 26

Presidency University, Bengaluru
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II Semester 2015-16 QUIZ-II COURSE: **ME A102 WORKSHOP PRACTICE (CLOSED BOOK)**

Max Marks: 5 Max time: 10 Min Weightage : 5% Date:

Q.No.	Question (one mark each)	Answer
1	If the depth of cut in facing operation is given as 1.5mm and the final diameter was 25mm then initially the diameter was a. 21mm b. 25mm c. 28mm d. 26.5 mm	
2	In tapping operation, chip disposal is a serious problem. State whether true or false.	
3	Sate whether true or false. In a shaping machine m is the ratio of cutting stroke time to return stroke time.	
4	If length of stroke in a shaping machine is 20mm, return time to cutting time ratio is 4:7 and the machine is rotating at 210rpm, find the cutting speed.	
5	The units of N in shaping operation is a. rotations per minute b. radians per minute c. mm/stroke d. None of the above	

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Set 27

Presidency University, Bengaluru
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II Semester 2015-16 QUIZ-II COURSE: **ME A102 WORKSHOP PRACTICE (CLOSED BOOK)**

Max Marks: 5 Max time: 10 Min Weightage : 5% Date:

Q.No.	Question (one mark each)	Answer
1	Which of the following are parts of a shaping machine. a. Spindle b. Overhang arm c. Column d. Die	
2	In hot working the material is heated a. above the melting point b. Just below the melting point c. Just below the recrystallization temperature d. Above the recrystallization temperature	
3	Which of the following statements is incorrect: a. The cross section of a bloom is greater than 225cm^2 b. The cross section area of slab is 100 cm^2 c. The thickness of sheet is greater than 6mm. d. None of the above	
4	State whether true or false. Seaming is the operation of joining two sheets.	
5	Drop forging is a slow squeezing operation of workpiece.	

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Set 28

Presidency University, Bengaluru
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II Semester 2015-16 QUIZ-II COURSE: **ME A102 WORKSHOP PRACTICE (CLOSED BOOK)**

Max Marks: 5 Max time: 10 Min Weightage : 5% Date:

Q.No.	Question (one mark each)	Answer
1	Ram is a part of _____machine.	
2	Which of the following tool can be used for machining of horizontal as well as vertical faces. a. Face milling cutter b. End milling cutter c. Side and End mill cutter d. None of the above	
3	State whether true or false. Close dimensional tolerances can be obtained in hot working.	
4	Which of the following processes is generally used for making car bodies? a. Forging b. Rolling c. Sheet metal working d. Machining	
5	In a rolling operation, both the rolls rotate at different speeds. State whether true or false.	

28 sets

Presidency University, Bengaluru

Office of Controller of Examinations

Undertaking by the Instructor-in-charge

I, the undersigned, faculty in School of Engineering/Management/Law certify the following as an Instructor-in-charge for the course TRW

1. The two sets/three sets of question papers being submitted are based on the syllabus covered during the classwork in all the sections.
2. The solutions and scheme of marking being provided is correct.
3. The question papers submitted are adhering to the stipulations of the university.
4. The question sets are being handed over in sealed and signed envelopes to ensure confidentiality.

Date: 8/4/16

Signature of Instructor-in-Charge
Name and Designation

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Set 23

Presidency University, Bengaluru
School of Engineering

II Semester 2015-16 QUIZ-II COURSE: **ME A102 WORKSHOP PRACTICE (CLOSED BOOK)**

Max Marks: 5 Max time: 10 Min Weightage : 5% Date:

Q.No.	Question (one mark each)	Answer
1	Which of the following is used to provide feed during facing? a. Cross-slide b. Compound rest c. Apron d. None of the above	
2	Match the following : a. Single point cutting tool b. Multi point cutiing tool 1. Shaper 2. Radial Drilling machine 3. Lathe 4. Milling Machine	
3	Which of the following part prevents the rubbing of workpiece in case of shaping machine during return stroke? a. Tool post b. Tool holder c. Clapper box d. Tool head	
4	Can a counterbore be used for spotfacing. State whether true or false	
5	The stroke length cannot be adjusted or changed in a shaping machine. State whether true or false.	

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Set 24

Presidency University, Bengaluru
School of Engineering

II Semester 2015-16 QUIZ-II COURSE: **ME A102 WORKSHOP PRACTICE (CLOSED BOOK)**

Max Marks: 5 Max time: 10 Min Weightage : 5% Date:

Q.No.	Question (one mark each)	Answer
1	Which is the most versatile machine after lathe? a. Radial drilling machine b. Shaper c. Milling machine d. All of the above	
2	State whether true or false. Shaping machine cannot be used to machine inclined surfaces.	
3	The tool used in lathe is single point cutting tool which is also called as knife edge tool. State whether true or false	
4	To provide seating for washer , which of the following operation is used: a. Counterboring b. Spotfacing c. Countersinking d. None of the above	
5	Lathe is used for machining _____ surfaces.	