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Examination: Odd Semester Examination 2023

Paper Name: Workshop/Manufacturing Practices

Paper Code: BTCSE/BTECE 204

Time:3Hours

Maximum Marks:75

Course Outcomes:

CO1: Understand the appropriate tools, materials, instruments required for specific operations in workshop.

CO2: Apply techniques to perform basic operations with hand tools and power tools such as centre lathe machine, drilling machine using given job drawing.

CO3: Understand the figures of the hand tools used in fitting, carpentry, foundry, welding shop and machine tools such as lathe machine and drilling machine.

CO4: Understand a report related to hand tools and machine tools description referring to library books and laboratory manuals.

CO5: Understand report of procedures followed for a given task in fitting, carpentry, foundry, sheet metals, welding and machine shops

PART –A

(All questions are compulsory)

(5 X 7 =35)

Q.No	Questions	Marks	Course Outcomes	Blooms Taxonomy Level
Q.1	What is the difference between wood and timber?	5	CO5	L2
Q.2	Define re-crystalline temperature	5	CO1	L1
Q.3	Explain the parts of a centre lathe using neat sketch.	5	CO2	L3
Q.4	What is welding? How is it classified?	5	CO3	L2
Q.5	Explain in brief the various types of power tools used in fitting shop using neat sketches.	5	CO2	L2
Q.6	What are the electrodes used in arc welding made of? What is electrode coating and why are they provided?	5	CO5	L1
Q.7	What is a core? What purposes are served by cores?	5	CO1	L2

PART – B
(Attempt any “Four” questions out of four)

(4 X 10 =40)

Q No	Questions	Marks	Course Outcomes	Blooms Taxonomy Level
Q.1	Show nomenclature of the following cutting tools with illustrated diagram: (i) Single point cutting tool (ii) multi-point cutting tool.	10	CO3	L3
Q.2	. Explain with neat sketches the following forging operations: (i) Rolling (b) Forging (ii) wire Drawing	10	CO4	L3
Q.3	Describe briefly the sand-casting process using neat sketches. State its advantages, disadvantages and generation applications	10	CO3	L3
Q.4	Write short notes on the following advanced machining methods: Plasma arc machining (PAM) Water jet machining (WJM)	10	CO3	L2
Q.5	Define cold working of metals. What are advantages, disadvantages, and limitations of cold working?	10	CO2	L2
Q.6	What is hot extrusion? Describe briefly with neat sketches all the process of extrusions	10	CO2	L2

BL – Bloom’s Taxonomy Levels

(1- Remembering, 2- Understanding, 3- Applying, 4-Analyzing, 5- Evaluating, 6- Creating)

CO-Course Outcomes

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