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1. Differentiate between TIG and MIG welding?
2. Explain the working principle of spot welding.
3. What is the function of cutting tools?
4. Explain in brief that the different types of defects produced during casting operation.
5. Explain the working principle of Lathe with neat and clean diagram.
6. Define the different types of patterns. What do you understand by pattern allowance?
7. Explain with neat sketch hot and cold rolling operation.
8. Draw the geometry of single point cutting tool. What do you understand by tool signature?

==END OF PAPER==

2112E128

BACHELOR OF VOCATION
Subject: Manufacturing Technology
Subject Code: BBME-101
Semester: First
December 2021
Theory (External): 35 Marks
Time: 03 Hours

Instructions to the Students

1. This Question paper consists of two Sections. All sections are compulsory.
2. Section A comprises 10 questions of objective type in nature. All questions are compulsory. Each question carries 1 mark.
3. Section B comprises 8 essay type questions out of which students need to do any 5. Each question carries 5 marks.
4. Read the questions carefully and write the answers in the answer sheets provided.
5. Do not write anything on the question paper.
6. Wherever necessary, the diagram drawn should be neat and properly labelled

Roll Number									

SECTION -A (SHORT/OBJECTIVE TYPE QUESTIONS)
(10x1=10 Marks)

- A. Castings are usually
- a) Costlier than forgings
 - b) Cheaper than forgings
 - c) At the same rate as forging for similar metal
 - d) None of the above
- B. The number of elements in tool signature are:
- a) 5
 - b) 7
 - c) 9
 - d) 11
- C. The metal joined is never brought to a molten stage in
- a) Pressure welding
 - b) Fusion welding
 - c) Thermit welding
 - d) None of the above
- D. The process of removing metal by a cutter which is rotated in the same direction of travel of work piece, is called
- a) Up milling
 - b) Down milling
 - c) Face milling
 - d) End milling
- E. Which of the following is a lathe accessory:
- a) Head stock
 - b) Compound rest
 - c) Lathe carrier
 - d) Tool post
- F. The most commonly used flame in gas welding is

- a) Neutral
- b) Carburizing
- c) Oxidizing
- d) All of the above

G. The velocity of the tool relative to the work piece is the:

- a) Chip velocity
- b) Shear velocity
- c) Cutting velocity
- d) Feed

H. Enlarging an existing circular hole with a rotating single point tool is:

- a) Boring
- b) Internal turning
- c) Drilling
- d) Reaming

I. Good surface finish and better dimensional accuracy can be achieved in

- a) Cold working process
- b) Hot working process
- c) Both a. And b.
- d) None of the above

J. In circular drawing process, when the depth of drawing is more than the diameter of the die, then the process is called as

- a) Forced drawing
- b) Hollow drawing
- c) Deep drawing
- d) All of the above

SECTION -B (ESSAY TYPE QUESTIONS)
(5x5=25 Marks)