

S.B. Roll No.....

WORKSHOP TECHNOLOGY – I

3rd Exam/Mech/RAC/Prod/Auto/0533/0933/May'17

Duration: 3 Hrs.

M. Marks: 75

SECTION-A

Q1. Do as directed:

15x1=15

- a) Plastics are also called Polymers. T/F
- b) Threads can be produced by rolling. T/F
- c) Electrical switches are made using _____ moulding process.
- d) Shape of car doors is made using press and dies. T/F
- e) Acetylene gas cylinders are of _____ color.
- f) _____ radiations are emitted during arc welding.
- g) Cupola is a type of _____ furnace.
- h) Magnetic Particle Inspection is a non destructive testing method. T/F
- i) Lower part of a moulding flask is called drag. T/F
- j) Core is used in casting of hollow parts. T/F
- k) Draft allowance is also called Taper allowance. T/F
- l) What is the full form of TIG?
- m) _____ is used as anode in Reverse Polarity.
- n) Pattern is the photo copy of the casting. T/F
- o) Pipes can be made using drawing operation. T/F

SECTION-B

Q2. Attempt any five questions.

5x6=30

- i. Differentiate between AC and DC arc welding.
- ii. What is the principle of Resistance welding?
- iii. What is Draft allowance and Machining allowance?
- iv. What is a core and what are its functions?
- v. Define refractoriness and cohesiveness.
- vi. Write a short note on Lost Wax casting.
- vii. Differentiate between Extrusion and Drawing.

SECTION-C

Attempt any two questions.

2x15=30

Q3. Explain the following:

- a. Open die forging
- b. Close die forging

Q4.a. What is rolling? Name different types of rolling mills.

- b. Explain Shearing, Punching, Trimming, Embossing & Notching.

Q5. What is destructive and non-destructive testing? Discuss different types of casting defects.

Q6. What are the materials used for making pattern? Give the coding of pattern as per BIS.