

**3RD SEM./AERO./DIP.MECH/MECH(MAIN/PROD/SAND/ IND.INT/AUTO)
MECH. ENGG 2020(W)NEW
Th-1- Production Technology**

Full Marks: 80

Time- 3 Hrs

Answer any five Questions including Q No.1 & 2
Figures in the right-hand margin indicates marks

1. Answer All questions

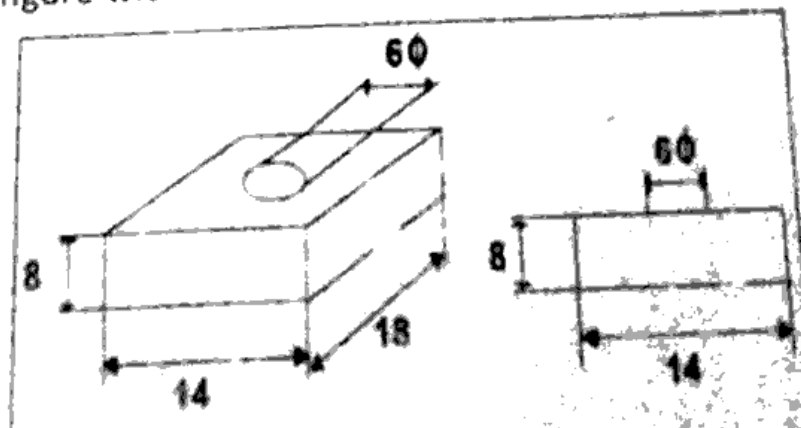
2 x 10

- a. What is blanking operation?
- b. Why cores are needed in casting?
- c. Explain Sintering process.
- d. Why dies are used in press work?
- e. Name any two materials suitable for Oxy-acetylene Welding Process.
- f. Jigs & Fixtures increases the production cycle time (True/False). Justify your answer.
- g. Define Extrusion process.
- h. Classify the different types of Rolling Process.
- i. What are the benefits of Production Technology in Engineering?
- j. What do we understand by economics of casting?

2. Answer Any Six Questions

6 x 5

- a. The machining allowance for cast iron for size up to 12 inch is 0.12 inch and from 12 inch to 20 inch is 0.20 inch. Redraw the dimension of the part shown in the figure with dimensions including machining allowance.



- b. Discuss about the oxidizing and reducing zones of a cupola furnace.
 - c. Compare Jigs with Fixtures.
 - d. Explain Resistance welding process.
 - e. Discuss about the various types of punches.
 - f. Compare hot rolling with cold rolling.
 - g. List the different advantages of powder metallurgy.
- 3 Explain 3-2 1 point location of a rectangular jig. 10
- 4 Write short notes on: 10
- a. Compound Dies
 - b. Direct Extrusion
 - c. Blending
 - d. Undercut
- 5 Discuss about various types of destructive and non-destructive types of tests carried out to detect welding defects. 10
- 6 Explain GMAW process with neat sketch. 10
- 7 Discuss about any five types of casting defects, its causes and remedies. 10

<https://www.sctevtonline.com>

Whatsapp @ 9300930012

Send your old paper & get 10/-

अपने पुराने पेपर्स भेजे और 10 रुपये पायें,

Paytm or Google Pay से