

Instructions to the Students:

1. Assume suitable data wherever required.
2. Draw figure wherever necessary.
3. Figure to right indicates full marks.

(Level/CO)

Mark

Q. 1 Solve all the Multiple Choice Questions

1 X 6=

1. In casting, which of the following furnace is NOT used

Knowledge/CO1

a) Puddling Furnace b) Crucible Furnace c) Cupola Furnace d) Induction Furnace

2. Which of the following casting process is known as counter gravity casting?

Knowledge/ CO1

a) Slush casting b) Vacuum casting c) Investment casting d) Sand casting

3. Defect in casting includes

Knowledge/ CO1

a) Hot tearing b) Cold tearing c) Chatter d) All of the above

4. Which of the following is NOT the rolling process

Knowledge/ CO2

a) Shape rolling b) Thread rolling c) Ring rolling d) Shell rolling

5. On small scale, mills which utilizes scrap material and that is melted in electric-arc furnaces, cast, and continuously rolled into specific lines of products is known as

Knowledge/ CO2

a) Two high mill b) Three high mill c) Four high mill d) Minimills

6. Extrusion ratio is

Knowledge/ CO2

a) ratio of the cross-sectional area of the billet to that of the extruded product

b) ratio of the cross-sectional area of the extruded product to that of the billet

Q. 2 Solve Any Two of the following.

3 X 2=

(A) What is the difference between expandable mold & permanent mold? Enlist various types of casting process.

Comprehension/
CO1

() Explain any one process out of ring rolling or shape rolling.

Comprehension/
CO2

(C) Which are the three principal extrusion defects?

Comprehension/
CO2**Q. 3 Solve Any One of the following.**

1X 8=

(A) What is difference between hot chamber & cold chamber die casting? Explain any one process briefly.

Application/
CO1

(B) How many types of mills can be used for rolling? Explain all of them with illustration.

Application/CO2

*** End ***