

Total Pages—3

V—Sem/MECH/2015(W)

( 2 )

PRODUCTION TECHNOLOGY

( Code : MET - 502)

Full Marks : 70

Time : 3 hours

Answer any five questions

Figures in the right-hand margin indicate marks

- 1. (a) Define extrusion process. 2
- (b) Differentiate between direct and indirect extrusion process. 5
- (c) Explain any rolling process with respect to advantages, limitations and field of application. 7
- 2. (a) What is welding? 2
- (b) Write down the difference between TIG and MIG welding process. 5

( Turn Over )

- (c) What is the use of flux-in welding process? Explain the resistance welding in detail with neat sketch. 7
- 3. (a) What are the binding materials used for moulding sands? 2
- (b) Define the casting defects and write down their causes and remedies. 5
- (c) Describe the construction and working principle of cupola furnace. Draw a neat diagram. 7
- 4. (a) What is core? 2
- (b) Explain various pattern allowances. 5
- (c) What is moulding sand? Explain different types of moulding sand. State the desirable properties of moulding sand. 7
- 5. (a) Define sintering. 2
- (b) State advantages of powder metallurgy technology technique. 5

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( Continued )

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- (c) Explain different process of powder metallurgy. 7
6. (a) State various press operations with tools used. 2
- (b) Explain a progressive die. How does it differ from a compound die? 5
- (c) Describe various advantages and disadvantages of simple and compound dies. 7
7. (a) Define Jigs. 2
- (b) What are the advantages of using jigs and fixture? 5
- (c) State the principle of Locations and describe of Location with respect to 3-2-1 point location of a rectangular Jig. 7

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