



C16-M-106

**5046**

**BOARD DIPLOMA SUPPLEMENTARY (INSTANT)  
EXAMINATION, (C-16)**

JUNE - 2019

**DME - FIRST YEAR EXAMINATION  
WORKSHOP TECHNOLOGY**

Time : 3 Hours]

[Total Marks : 80

---

**PART - A**

**2×15=30**

**Instructions :**

- (1) Answer any 15 questions.
- (2) Each question carries 2 marks.
- (3) Answer should be brief and straight to the point and shall not exceed one or two simple sentences.

- 1 State the difference between rip saw and cross-cut saw.
- 2 List out any four marking tools used in carpentry.
- 3 What is setting of saw teeth? Why is it done?
- 4 What is a chisel? Name two types of chisels used by a fitter.
- 5 What is sine bar? Draw a neat sketch of sine bar.
- 6 What is a scraper? Name two types of scrapers used in fitting shop.
- 7 State the uses of a) Snap gauge b) Plug gauge
- 8 List out any four fuels used in forging.
- 9 List out any four metals used in sheet metal work.

5046 ]

1

[ Contd...

- 10 What is meant by a seam? List out any two types of seams.
- 11 What is a purpose of snips?
- 12 State the difference between counter boring and counter sinking.
- 13 Draw a twist drill and name its parts.
- 14 How is a drilling machine specified?
- 15 What is a pattern? List any two types of patterns used in foundry.
- 16 List any four properties of moulding sand used in foundry.
- 17 What are the advantages of cold working over hot working?
- 18 State the difference between direct extrusion and indirect extrusion.
- 19 Draw a three-high rolling mill and show the direction of rotation of rollers.
- 20 Define a) wire drawing b) stretch forming.

**PART - B**

**10×5=50**

**Instructions :**

- (1) Answer any **FIVE** questions.
- (2) Each question carries **TEN** marks.
- (3) Answer should be comprehensive and criterion for valuation is the content but not the length of the answer.

- 21 Describe wood turning lathe with the help of neat sketch.
- 22 Explain any live types of files based on its shape (cross section) with sketches.
- 23 Explain any four forging operations with suitable diagram.

- 24 Explain any four types of stakes used in sheet metal shop with neat sketch.
- 25 Describe Radial drilling machine with a neat sketch.
- 26 List and explain pattern allowances used in foundry.
- 27 Explain any five types of moulding sand used in foundry.
- 28 a) Explain Mortise and tenon joint with neat sketch.  
b) Write short notes on Hot drawing.
-