

**DIPLOMA IN CIVIL ENGINEERING (DCLE(G)) /  
DCLEVI / DMEVI / DELVI / DECVI / DCSVI**

**Term-End Examination**

**December, 2017**

00447

**BET-026 : WORKSHOP TECHNOLOGY**

*Time : 2 hours*

*Maximum Marks : 70*

---

**Note :** *Part 'A' is compulsory. Answer any seven questions from Part 'B'. All questions in Part 'B' carry equal marks.*

---

---

**PART A**

1. Answer the following questions :  $7 \times 2 = 14$
- (a) What is the function of Mortise Gauge in carpentry work ?
  - (b) Write the function of 'Core' in moulding work.
  - (c) Name two types of rivet heads. Give two examples where riveted joints are used.

- (d) How does a 'Flux' help in soldering work ?
- (e) Write down the names of different zones in oxy-acetylene flame.
- (f) Name at least four types of operations which can be performed on a lathe machine.
- (g) Enlist the types of moulding sand.

## PART B

*Answer any seven questions :*

*7×8=56*

2. How are carpentry tools classified ? Describe two boring tools with neat sketches.
3. What are the functions of a Pattern ? Describe and sketch 'Sweep pattern'.
4. What do you understand by the term Moulding ? Make a list of the main characteristics which a good moulding sand should possess.
5. Name the different types of vices used in fitting and plumbing work. Describe any one and label its parts.
6. Sketch any two types of joints used in sheet-metal work and describe them in brief.
7. Describe with the help of sketches, the three types of oxy-acetylene flame.
8. State the difference between Smithy and Forging. Make a list of six types of smithy tools.
9. For what reasons are steels heat-treated ? What is the purpose of the 'hardening' process ?

+

- 10.** How is the size of a lathe machine specified ?  
What are the different types of lathe machines ?
- 11.** What are the characteristics of a good paint ?  
Give the names of any four types of paints.
-