

**DIPLOMA IN CIVIL ENGINEERING (DCLE(G))**

**Term-End Examination,**

**December 2019**

**BET-026 : WORKSHOP TECHNOLOGY**

*Time : 2 Hours]*

*[Maximum Marks : 70*

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*Note : (i) Part 'A' is Compulsory.*

*(ii) Answer any seven questions from Part 'B'. All questions in part 'B' carry equal marks.*

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**Part - A**

1. Select the correct option in questions (a) to (g) given below. 7×2=14
- a) Which of the following is not used in carpentry work?
- (i) Band saw
  - (ii) Tenon saw
  - (iii) Chipping hammer
  - (iv) Mallet
- b) The pressure in filing should be applied in the
- (i) Forward direction
  - (ii) Backward direction
  - (iii) Both direction
  - (iv) None of these

(2)

- c) The most common flame in gas welding is
  - (i) Carburizing flame
  - (ii) Neutral flame
  - (iii) Oxidizing flame
  - (iv) All
- d) Hard solder is an alloy of :
  - (i) Lead and TIN
  - (ii) Brass and aluminium
  - (iii) Steel and copper
  - (iv) Copper and zinc
- e) Rapping or shake allowance on pattern is provided to be
  - (i) Greater than the actual size
  - (ii) Smaller than the actual size
  - (iii) Equal to the actual size
  - (iv) None of these
- f) The square shaped hole on the Top face of Anvil is called :
  - (i) Pritchel hole
  - (ii) Punch-hole
  - (iii) Hardie hole
  - (iv) Round hole
- g) Which of the following constituents of paint is used as a vehicle?
  - (i) Linseed oil
  - (ii) Spirit
  - (iii) Borax
  - (iv) Turpentine oil

**Part - B**

Answer **any seven** questions.

2. What is meant by setting of Saw teeth? Why is it done? Explain in brief with a sketch. 8
3. Differentiate between painting and polishing processes. Write names of constituents or ingredients which are used for the preparation of polish. 8
4. How are "Files" classified in fitting-work? Draw a neat sketch of a rectangular file and label its parts. 8
5. State the difference between 'Soldering' and 'Brazing' processes. 8
6. Why stakes are used in sheet metal work? Enlist names of three types of stakes. 8
7. Give the list of materials/metals used commonly for pattern making. What is a Master pattern? 8
8. Make a list of different types of moulding sand. Explain in brief, use of any one of these types. 8
9. What are different types of Hand-Hammers used in smithing and forging work? Explain any one with a neat sketch. 8
10. Distinguish between "Normalizing" and "Tempering" processes of heat treatment. 8
11. Make a list of operations to be performed on a lathe machine. Describe any one with its objective. 8

