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**BET-026** 

# DIPLOMA IN CIVIL ENGINEERING (DCLE(G)) / DIPLOMA IN ELECTRICAL AND MECHANICAL ENGINEERING (DEME) / DCLEVI / DMEVI / DELVI / DCSVI

00682

## Term-End Examination June, 2019

#### **BET-026: WORKSHOP TECHNOLOGY**

Time: 2 hours

Maximum Marks: 70

**Note:** Part A is **compulsory**. Attempt any **six** questions from Part B and **two** questions from Part C.

#### PART A (Compulsory)

1. Attempt any seven questions.

- 7×2=14
- (a) Name any two common materials used for making the patterns.
- (b) Indicate only the names of two types of "Core Prints".
- (c) The main function of binder in moulding sand is
  - (i) To improve its existing properties.
  - (ii) To impart permeability and refractoriness.
  - (iii) To impart the sufficient strength properties and cohesiveness properties.
  - (iv) None of the above

(d)	The Box Nut in bench-vice is made of	
	(i)	High carbon steel

- (ii) High speed steel
- (iii) Cast iron
- (iv) None of the above
- (e) The filing process which is used to remove the maximum amount of extra metal from any surface is known as
  - (i) Cross filing
  - (ii) Draw filing
  - (iii) Straight filing
  - (iv) None of the above
- (f) Name two joints used in plumbing work.
- (g) The percentage composition of lead and tin in case of Plumber's Solder is
  - (i) 37%: 63%
  - (ii) 70%: 30%
  - (iii) 50%: 50%
  - (iv) None of the above

- (h) The standard colour for the acetylene cylinder is
  - (i) Black
  - (ii) Yellow
  - (iii) Blue
  - (iv) Maroon
- (i) Feed or displacement of cutting tool in machine work is expressed in
  - (i) Metre Per Minute
  - (ii) Revolution Per Minute
  - (iii) mm/revolution
  - (iv) None of the above

whing work.

#### PART B

Attempt any six questions.		
2.	Enlist any two types of boring tools used in carpentry work. Describe any one in brief with the help of a neat sketch.	
3.	What is "Core"? How many types of "cores" are there?	e 6
4.	With a neat sketch, name the different parts of flat file.	a <i>6</i>
5.	How does a flux help in soldering process? Als enlist the types of flux.	o <i>6</i>
6.	Enlist different types of stakes used in sheemetal works.	et 6
7.	Differentiate between "TIG welding" an "MIG welding" processes.	d <i>6</i>
8.	Draw the free hand sketches of "Pan headed and "Counter-sunk headed" rivets.	l" 6
9.	How are cutting speed, feed and depth of cut is lathe work usually expressed?	n <i>6</i>
10.	Differentiate between Dead centre, Live centre and Revolving centre.	e <i>6</i>

### PART C

Atte	empt any <b>two</b> questions. 2×10	)=20
11.	What are the main constituents of an oil paint? Explain in brief, the painting process on old wood-work.	10
<b>12.</b>	Make a list of different Accessories and Attachments used with lathe work. Explain any one with simple sketch.	10
13.	What are the main objectives of heat treatment?  Differentiate between Annealing and  Normalizing processes of heat treatment.	10
14.	Enlist different methods of "Filing" in fitting	1/

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