

No. of Printed Pages: 5

**BET-026** 

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

## Term-End Examination December, 2015

**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.

 $7 \times 2 = 14$ 

- (a) A core print is an added projection on a pattern and form a seat in the mould which is used to
  - (i) Hold the core
  - (ii) Locate the core
  - (iii) Hold and Locate the core
  - (iv) None of the above
- (b) Name any five joints used in a carpentry shop.
- (c) Solvent is added in paint for \_\_\_\_\_ its fluidity.

(d)	Teeth are cut parallel to each other at an angle to the centre line of file. In single cut file these cut of teeth are at an angle of			
	(i)	60°		
	(ii)	75°		
	(iii)	80°		
	(iv)	90° .		
(e)	exte	cle is used in oil paints as a binder for nder, base, and colouring pigment. Give examples of a vehicle as used in oil ts.		
(f)	Reamer is used just to finish a hobring it to the correct size. Reaming after process.			
	(i)	Tapping		
*	(ii)	Dieing		
	(iii)	Drilling		
	(iv)	None of the above		
(g)	The colour of oxygen gas cylinder is			
	(i)	Black		
	(ii)	Maroon		
	(iii)	Yellow		
	(iv)	None of the above		

(h)	Which of the following is associated with the term 'Porosity'?			
	(i)	Pattern Making		
	(ii)	Moulding		
	(iii)	Foundry		
	(iv)	None of the above		
(i)	The temperature of oxy-acetylene flame is about			
	(i)	2400°C		
	(ii)	3200°C		
	(iii)	3600°C		
	(iv)	4000°C		
<b>(j</b> )	In Lathe Machine, cross-slide is used for holding			
	(i)	Chuck		
	(ii)	Tool Post		
	(iii)	Tail Stock		
	(iv)	None of the above		

#### PART B

Atte	mpt any <b>six</b> questions.	6×6=36
2.	Enlist the different types of vices used in fitting shop. Explain any one of them with a ne sketch.	
3.	Name three fluxing agents used in soldering operation. Give their uses.	ng <i>6</i>
4.	Differentiate between Dead Centre, Live Cent and Revolving Centre used in Lathe Machines.	re <i>6</i>
5.	How many machines are used in Sheet Met work? Explain any one of them with a labelle diagram.	
6.	What is 'Press Forging'? Explain in brief.	6
7.	What are the different methods for 'Tap Turning' on Lathe Machine? Explain any one them.	
8.	What are the common tests performed of Foundry Sand'? Write in detail about any two them.	
9.	Mention the use of 'Tong' in forging. Sketch arone of the chisels.	ny <i>6</i>

### PART C

Atte	empt any <b>two</b> questions. 2×	10=20
10.	What are the main constituents of an oil paint 'Describe in brief.	?
11.	Define 'Heat Treatment'. Explain in brief the process of annealing.	e <i>10</i>
12.	Enlist the different types of Measuring Tools used in a fitting shop. Describe any two of then with neat sketches.	
13.	Sketch and describe the working principle of 'Submerged Arc Welding'. Explain 'Torch' used in cutting of metals.	