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BIME-033(S)

P.T.O.

DIPLOMA – VIEP – MECHANICAL ENGINEERING (DMEVI)

00298

BIME-033(S)

Term-End Examination December, 2016

BIME-033(S): MACHINE TOOLS

Time: 2 hours Maximum Marks: 70 **Note:** Answer any **five** questions. All questions carry equal marks. 1. How are lathe machines classified? Write (a) the difference between Capstan and Turret lathe. 7 Distinguish between single-point **(b)** multi-point cutting tools. Give the names of different tools that are used on a lathe machine. 7 Explain about the classification of 'locating 2. (a) surfaces' on a lathe machine. (b) What the safety guidelines are precautions to be followed while working on a lathe machine? 7 Describe the working of a radial drilling 3. (a) machine with a neat diagram. 7 What are the different abrasives used in **(b)** making grinding wheels? Explain them. 7

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4.	(a)	What are the different operations performed on a drilling machine? Discuss any one of them.	7
	(b)	Explain the process of 'Deep Hole' boring, with its applications.	7
5.	(a)	Write about the classification of milling machines and briefly explain how profile milling machine works.	7
	(b)	What are the different types of milling methods? Explain any one of them.	7
6.	(a)	What are the common work holding devices used on milling machines? Explain any one of them with a neat sketch.	7
	(b)	Explain briefly the main elements of a broaching tool with the help of a neat sketch.	7
7.	(a)	Explain the difference between pull broaching and push broaching.	7
	(b)	Explain briefly the 'honing process'. Give an example of honing work.	7
8.	(a)	What are the advantages of grinding process over other cutting processes? Enumerate the special features of grinding process.	7
	(b)	Discuss the various advantages of CNC machines over conventional machines.	7