Reg. No.					
1109.110.					



VI SEMESTER B.TECH. (AUTOMOBILE ENGINEERING) END SEMESTER EXAMINATIONS, JUNE 2018

SUBJECT: COMPUTER INTEGRATED MANUFACTURING [AAE 4008]

REVISED CREDIT SYSTEM (20/06/2018)

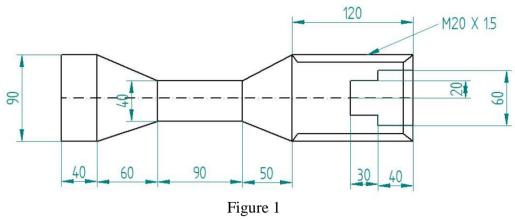
Time: 3 Hours MAX. MARKS: 50

Instructions to Candidates:

- ❖ Answer **ALL** the questions.
- Missing data may be suitable assumed.

1A.	Write the part program for the component shown in figure 1	05
1B.	With an example, explain how the composite part concept helps in the work cell design in group technology	05
2A.	Write the part program for the component shown in figure 2. Consider blank diameter	0.7
	as 60mm and grooving tool diameter 3mm	07
2B.	Compare open loop and closed loop control system in NC machines	03
3A.	List and explain the different methods used in increasing the accuracy in NC Machine	05
3B.	Explain the need of production planning. List and explain the Inputs & outputs of MRP	05
4A.	Explain the meaning of the following with reference to robots	
	(i) Control resolution(ii) Accuracy(iii) Repeatability	03
4B.	Write the part program for the component shown in figure 3	07
5A.	What is the purpose of material handling systems used in industries? List any 4 material transport equipment's	03
5B.	Define robot. List and explain the classification of robots	04
5C.	List and explain the different types of tool changers which are used in NC machines	04

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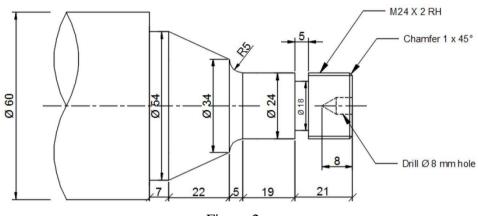


Figure 2

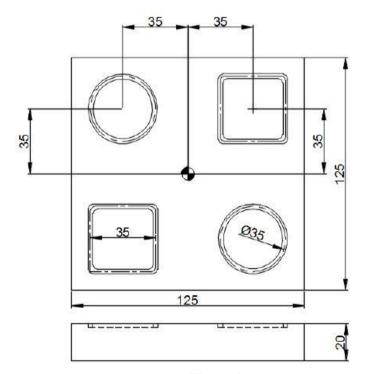


Figure 3

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