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	Reg. No. :
	Question Paper Code: 20864
	B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2022.
	Sixth/Seventh Semester
	Mechanical Engineering
	ME 8691 - COMPUTER AIDED DESIGN AND MANUFACTURING
	(Common to Mechatronics Engineering)
	(Regulations 2017)
Т	ime : Three hours Answer ALL questions. Maximum : 100 mark
	PART A — $(10 \times 2 = 20 \text{ marks})$
1.	How does IT facilitate concurrent engineering?
2.	List any four software packages used for both CAD and CAM
3.	what is meant by the term continuity conditions in CAD2
4.	riow half spaces are used to develop primitives in solid model:
5.	What are the various methods for checking the IGES standard?
6.	the applications of CALS standard.
7.	Why servomotor is used for axes feed drive?
8.	What are the following G and M functions for a machining centre? G17, G30, M19, M06.
9.	What is cellular manufacturing?
10.	How does a turning centre differ from a FMC?
	PART B — $(5 \times 13 = 65 \text{ marks})$
11.	(a) List and describe various activities involved in the product cycle development with suitable diagram.
	Or
	(b) With an example, elaborate the steps involved in implementation of CAM in a manufacturing industry.

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12. (a) A B-Spline curve is defined by the points P1[1, 1], P2[5, 5], P3[8, 5], P4[4, 3]

(i) Plot the curve (10)

(ii) Find the tangent to the curve at u = 0.25. (1.5)

(iii) Find the normal to the curve at u = 0.25. (1.5)

Or

(b) Discuss in detail about the basic elements and building operators of B-Rep scheme required for building the following solid model Fig. 1.

Fig. 1

 (a) How would you transfer the data between dissimilated CAD/CAM system? Discuss the same.

Or

- (b) Describe briefly the architecture of the following data exchange formats:
 - (i) STEP

(7)

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(ii) PDES

(6)

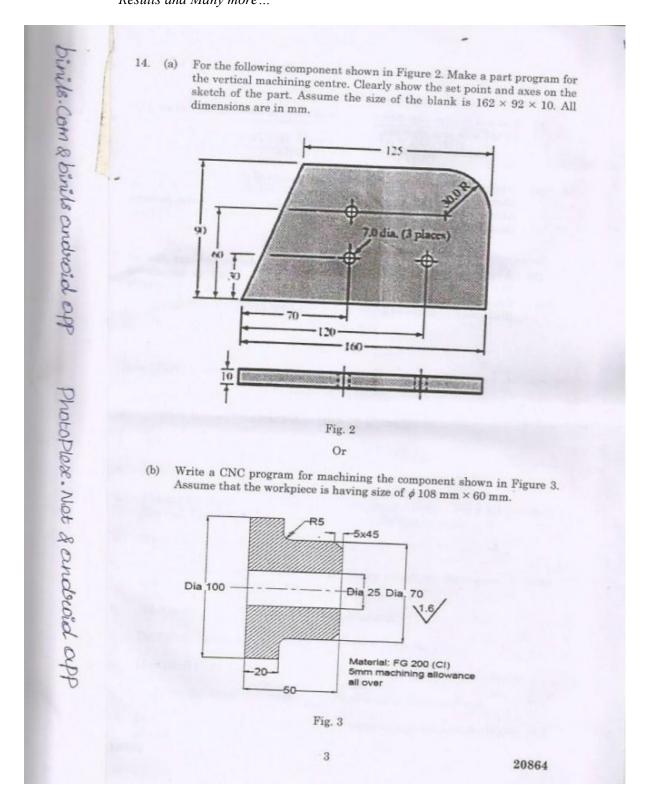
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