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தமிழ் நாடு அரசு
 தொழில்நுட்பக் கல்வித் துறை, சென்னை 600 025 - வாரியத் தேர்வுகள்
 அடுத்தப் பக்கத்தில் கொடுக்கப்பட்டுள்ள குறிப்புகளை படிக்கவும் (Read the instructions given in the next page)

Q. No.	A	B	C	Q. No.	A	B	C	Q. No.	A	B	C	Q. No.	A	B	C
1.				9.				17.				25.			
2.				10.				18.				26.			
3.				11.				19.				27.			
4.				12.				20.				28.			
5.				13.				21.				29.			
6.				14.				22.				30.			
7.				15.				23.				31.			
8.				16.				24.				Total Marks			

For Revaluation

Q. No.	A	B	C	Q. No.	A	B	C	Q. No.	A	B	C	Q. No.	A	B	C
1.	0			9.				17.				25.			
2.	0			10.				18.				26.			
3.				11.		4/10		19.				27.			
4.	0			12.				20.				28.			
5.				13.				21.				29.			
6.				14.	0			22.				30.			
7.				15.		0/10		23.				31.			
8.				16.				24.				Total Marks		04	

591-2044-23211243



Question Paper Code No.
வினாத்தாளின் குறியீட்டு எண்

2 0 4 4

No. of Pages Written
எழுதப்பட்ட பக்கங்களின் எண்ணிக்கை

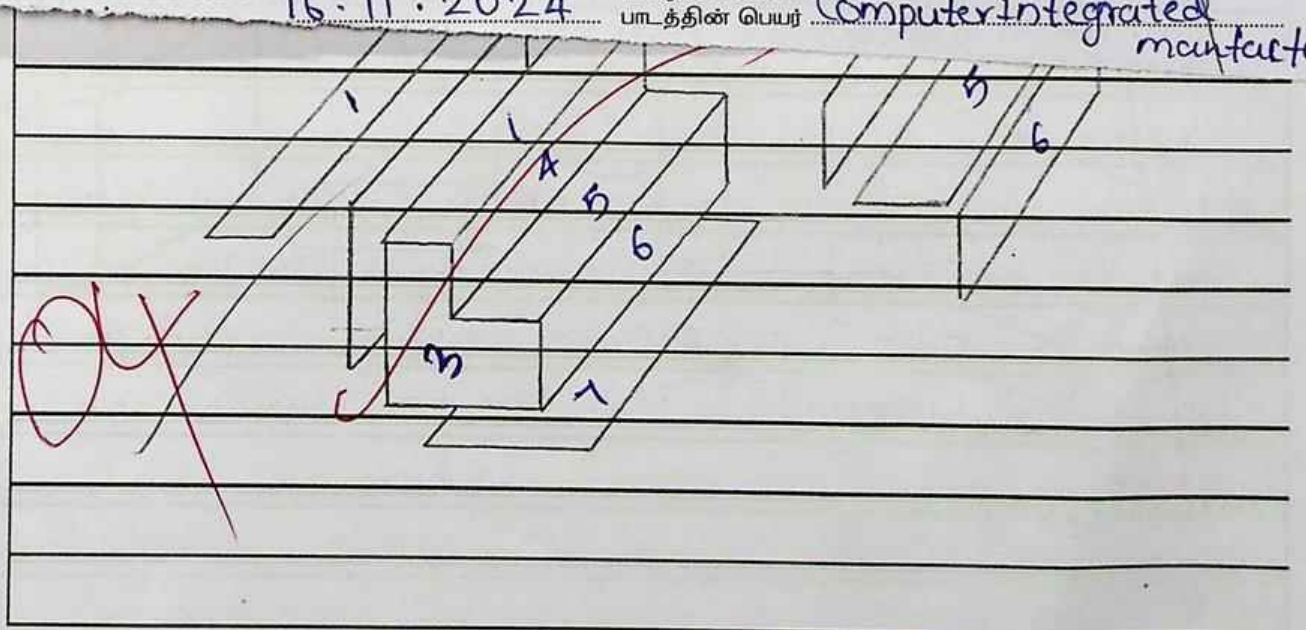
12

Date of Examination :

16.11.2024

Subject Name :

பாடத்தின் பெயர் Computer Integrated manufacturing.



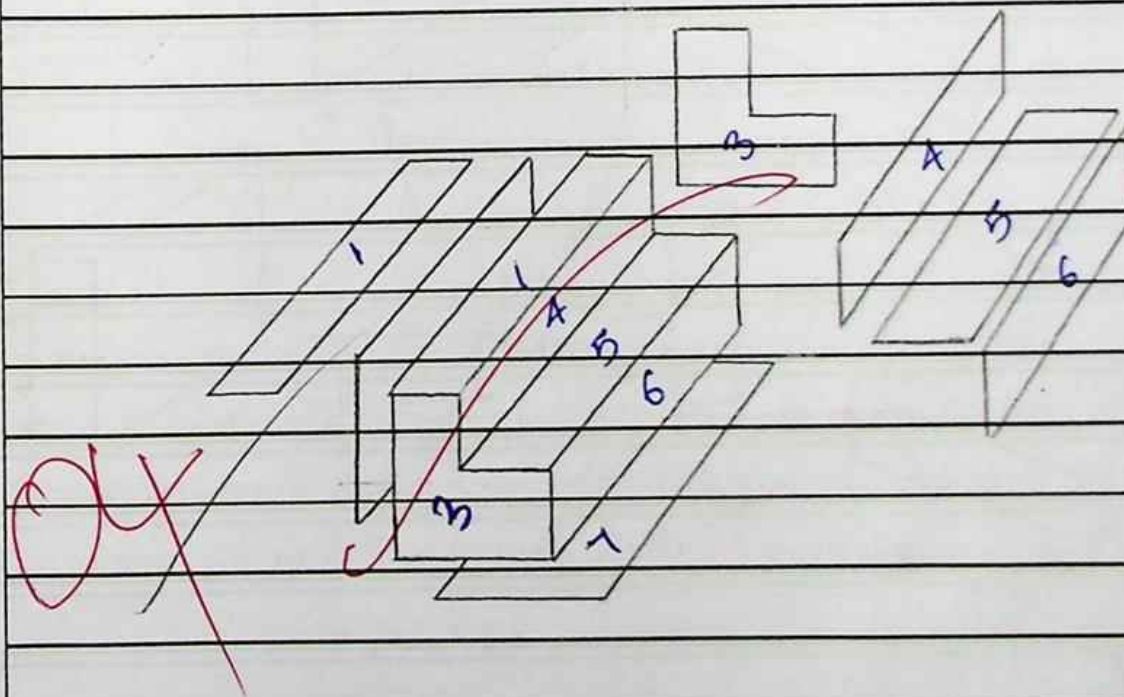
தேர்வாளர்களுக்கான அறிவுரைகள்
INSTRUCTIONS TO CANDIDATES

1. விடைத்தாள் மாற்றிப் பெறுவதற்கு,
Get the answer book replaced, if
 - விடைத்தாள் சரியாக சேர்ந்து பின் செய்யப்படாமல் இருந்தால்.
 - it is not stapled properly
 - விடைத்தாள் புத்தகப் பக்கங்களின் வரிசை எண் விடுபட்டிருந்தாலோ அல்லது வரிசையாக இல்லாமலிருந்தாலோ (மொத்தம் 30 பக்கங்கள்).
 - the page numbers are missing or not in order (there shall be 30 pages continuously numbered)
 - தலைப்பு பக்கத்தில் விடைத்தாள் புத்தகத்தின் கீழ்பகுதியில் வரிசை எண் அச்சிடப்படாமலிருந்தால்.
 - the serial number of the answer book is not printed at the bottom of the title page
2. உங்களுடைய பதிவு எண்ணையும், பெயரையும் அதற்காக கொடுக்கப்பட்டுள்ள தலைப்பு பக்கத்தின் கீழ்பகுதியில் மட்டும் எழுதவும்; அதைத் தவிர்த்து பதிவு எண், பெயர் ஆகியவற்றை விடைத்தாளில் மற்றப் பக்கங்களில் எழுதக்கூடாது. எந்தவிதமான அடையாளக் குறியீட்டையும் விடைத்தாளில் எழுதக்கூடாது.
You are prohibited from writing your REGISTER NUMBER or NAME in any part of the answer book, other than the space provided at the bottom of the title page. You are prohibited from writing or leaving any distinguishing marks so as to identify your answer book.
3. தலைப்புப் பக்கத்தில் கொடுக்கப்பட்டுள்ள அதற்குரிய கட்டங்களில் விவரங்களை எழுதவும்.
Fill up all the particulars, in the relevant boxes, in the title page.
4. கேள்விகளுக்கு பதில் எழுதும் போது விடைத்தாளில் இரண்டு பக்கங்களையும் பயன்படுத்த வேண்டும். பக்கங்களில் தொடர்ந்து விடை எழுதாமல் வெற்றிடம் விடக் கூடாது.
Use both sides of the paper for answering questions, without leaving spaces/ lines in between.
5. இந்த விடைத்தாள் புத்தகம் போதுமான பக்கங்களை கொண்டிருக்கிறது. இதைத் தவிர கூடுதல் விடைத்தாள் அளிக்கப்படமாட்டாது.
This answer book contains sufficient pages and no additional sheets will be issued.
6. கேள்விக்கு விடையளிக்கும் முன்பு வினாத்தாள் எண், வருடம், மாதம், காலம் இவைகளை சரிபார்க்கவும்.
Check the Code Number, Month and year of Examination, Duration etc., in the question paper before answering the questions.
7. கொடுக்கப்பட்டுள்ள வரைப்படத்தாள் / கிராப் ஷீட் தவிர வேறு எந்த விடைத்தாளையும் சேர்க்க கூடாது. விடைத்தாள் புத்தகத்திலிருந்து எந்த பக்கத்தையும் கிழிக்கக் கூடாது.
No extra sheet is to be attached except the drawing/graph sheets supplied and no sheet is to be teared from the answer book.
8. கைபேசி, துண்டுக் காகிதம் மற்றும் தடை செய்யப்பட்ட இதர பொருட்கள் வைத்திருத்தல், தேர்வுக்கு எதிரான முறைகேடுகளில் ஈடுபடுதல் அனைத்தும் தேர்வு வாரிய விதிகளின்படி தண்டனைக்குரிய குற்றமாகும்.
POSSESSION OF ANY PROHIBITED MATERIAL, CELL PHONE, BITS OF PAPERS, etc., AND INVOLVEMENT IN MALPRACTICE OF ANY NATURE SHALL BE PUNISHABLE UNDER THE BOARD'S RULES.



(11)(b)i)

1. the Surface modeling will be they will a object to a design to the object parts will removing to correct elements and dimension will taken to the Solid modeling to the same process come manufacturing the process it come be splitting the products to developing the new products the it will be splitting to Surface parts, upper parts Side parts right Side parts and Front Side parts of the object.





*) The Surface modeling classing to using the Computer CAD System it will helping to easily developing to doing the Surface modelling then it will drawing the parts and the parts will solid to taken and the assembly to assembly the all parts and the classing will be completed and taken planning to manufacturing the products to using a cad.

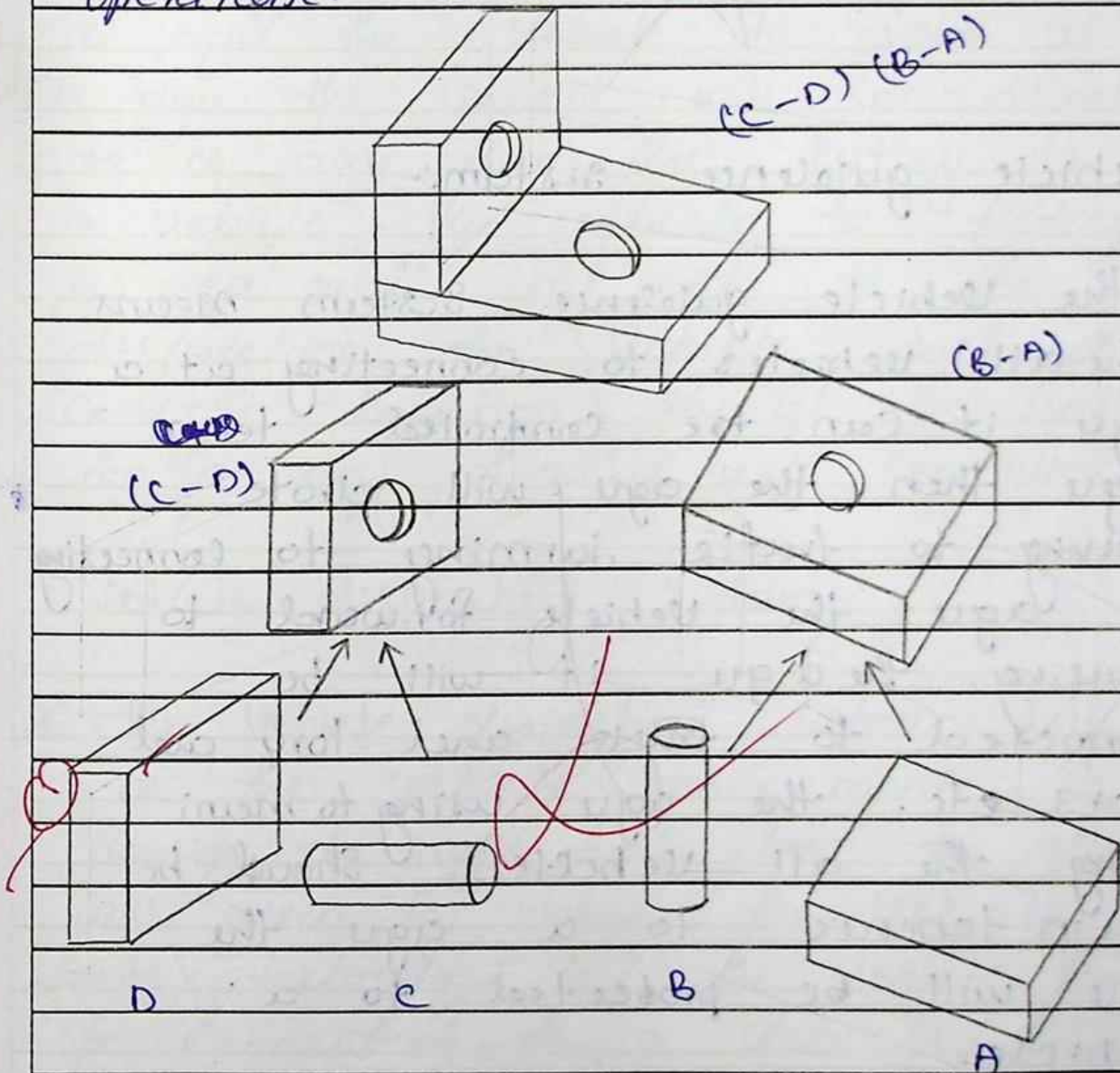
(H)(b)(ii)

~~The Boolean operations having three symbols linear logic and~~



(11)(b)(ii)

The Boolean operations it having a three types of a simple ($\cup$ $\cap$ -) it will using a this simple to pattern drawing to using a Boolean operations.





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* Vehicle guidance System.

* Vehicle Routing System.

* Vehicle dispatched system.

* traffic Control System.

* Safety Divise.

Vehicle guidance system:-

* the Vehicle guidance System means the all vehicles to connecting at a age it can be controlled to a age then the age will drive having to traffic jarmine to connecting a age the vehicle forward to Sensing the age it will be Connected to trucks and lory and cars etc. the age using to meani thing the all vehicle should be main tenence to a age the age will be protected to a vehicle.



Vehicle Routing System:-

*1) The Vehicle Routing System to the agent came using to a vehicle to seen to location of the routing to going they will to helping at a agent the vehicle to using at a agent the vehicle will controlled to a agent then the Routing to a vehicle. the vehicle to fitting a agent and it will be be dispreaching the vehicle and Corrente location should be searching for a agent then it will controlled.

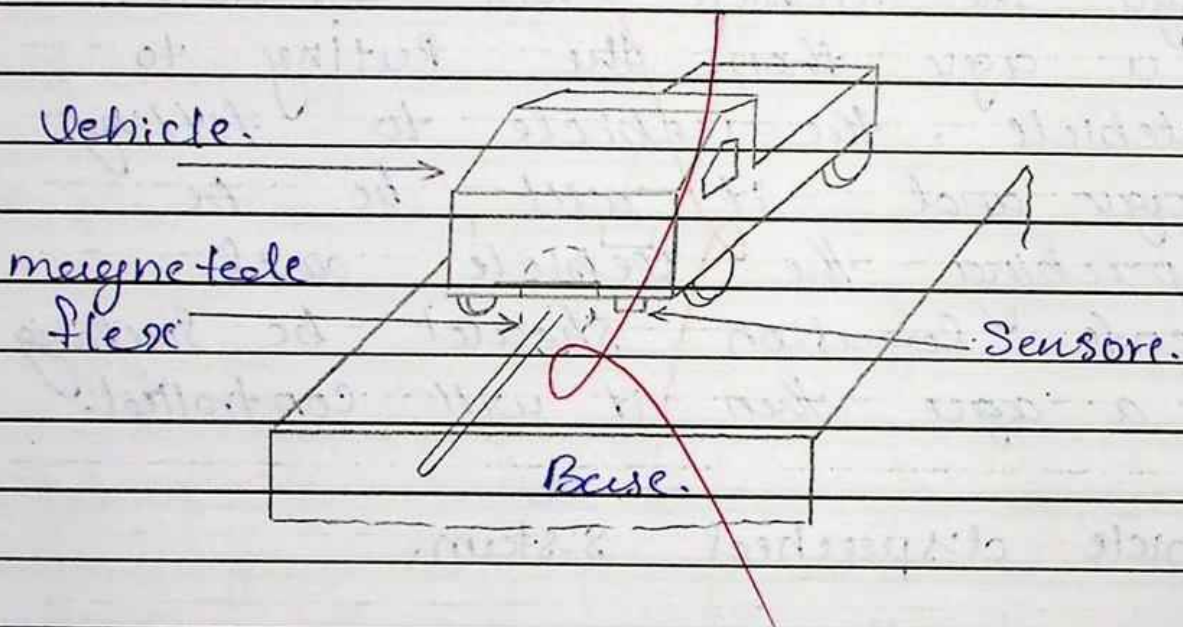
Vehicle dispatched System.

*1) The Vehicle dispatched System will be the vehicle move mente to Sensing to agent and how to move will given to moving the vehicle and technology of the vehicle should be Connected to a vehicle and controlled to a dispatched the vehicle then it will helping to a vehicle for dispatched and Routing.



then the vehicle protected to a
age and guidance to moving a
vehicle the safety to a vehicle
dispatching system and controlled
the age.

Vehicle Routing System: Diagram.



Traffic Controller Systems:-

* the traffic controlled to a age
then it will be connected to
a age and vehicle to connected
then the traffic controller signal to
connecting the age it will be
controlled to age it will be
controlled to vehicle forming and



and traffic turning to helping at a
age then the age helping to a
age the vehicle traffic controller
to connecting to a computer it will
dedicate the traffic controller and
it will control the vehicle guidance
system and dispute rating it will
Agency to using the and vehicle
guidance.

Scetty device:-

* the devices will be using to
easy way to developing smart
devices and digital devices to using
easy and it will be connecting
to a age then the devices to
connecting age to smart devices.
to using easy.



(15)(a)(ii)

* The Quality function deployment to they will required two thing (HoQ) House of Quality function to using the developed thing the ~~has~~ customers telling product will manufacturing. it will developing to given new feature to product and the customer having product will manufacturing to given the customer. He order to manufacturing the product. The Quality function having (PMQT) product manufacturing Quality they having to things of the developing the product (HoQ) and (PMQT)

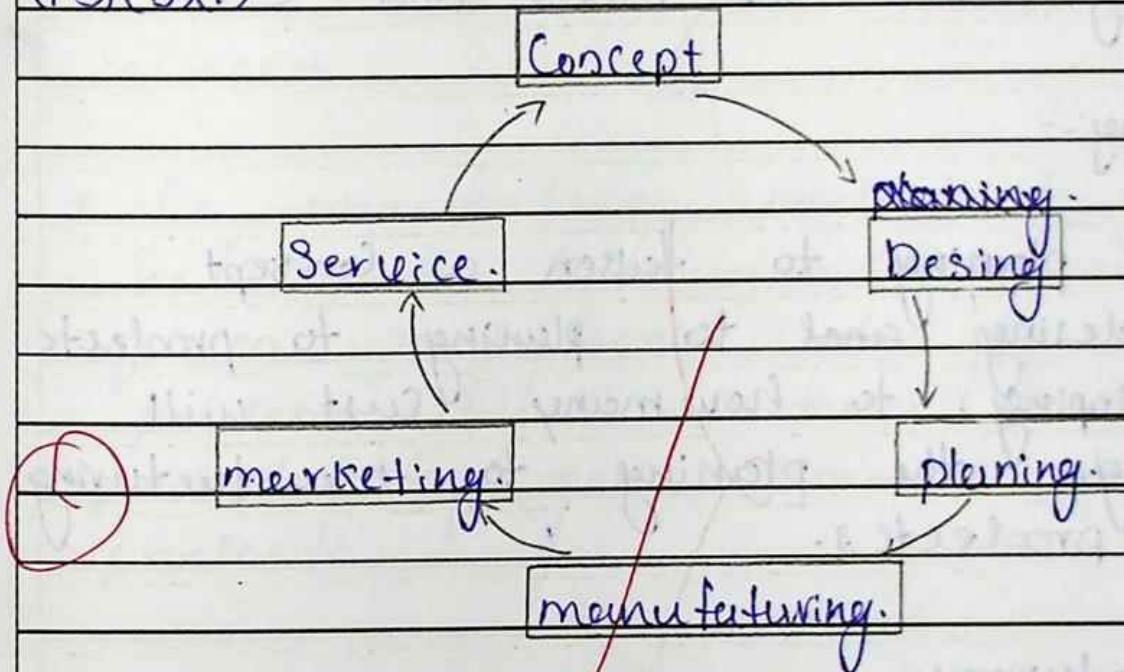
* the product developing to the customer lecher will learning and customer having product manufacturing and develop the product.



Advantages:-

- * the product cannot be waste.
- * have more ideas.
- * the product can easy to develop.
- * low cost.

(15)(b)(i)



Concept:-

- * the having to design taken the Concept to manufacturing the product to take the Concept. ~~Idea~~ Ideas will developing and to manufactured product.



Designing:-

* The designing to using CAD system to easy to designing the products and having elements length diameter and low cost to products developing. then the products developing to having tools and sheets and etc.

Planning:-

* the planning to taken a concept and designing and to planning to products developing to how many cost will having. the planning to manufacturing the products.

manufacturing:-

* the planning taken the products manufacturing to and developing the products to easy to assemble the products and given new features and given quality better to the products and compare to products and



marketing:-

* The manufacturing products will given to a marketing of seller the products details will taken and products to presentation will given the products.

Service:-

* The manufacturing product to given service to better quality and given good service to the products it will customer having products to more clients the products.



PART - (A)

1. * easy to closing to closing.
 * having more features.
 * easy to closing.

2. the modelling to directly melting iron taken to having sharp will have it called wire frame modelling.

4. the using Computer to a array to identify the Computer Integrated manufacturing. ~~then it~~ ~~used~~

the house of quality means the Customer telling ^(or) _(order) product to manufacture to given the Customer.

Principal

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12 pages only

