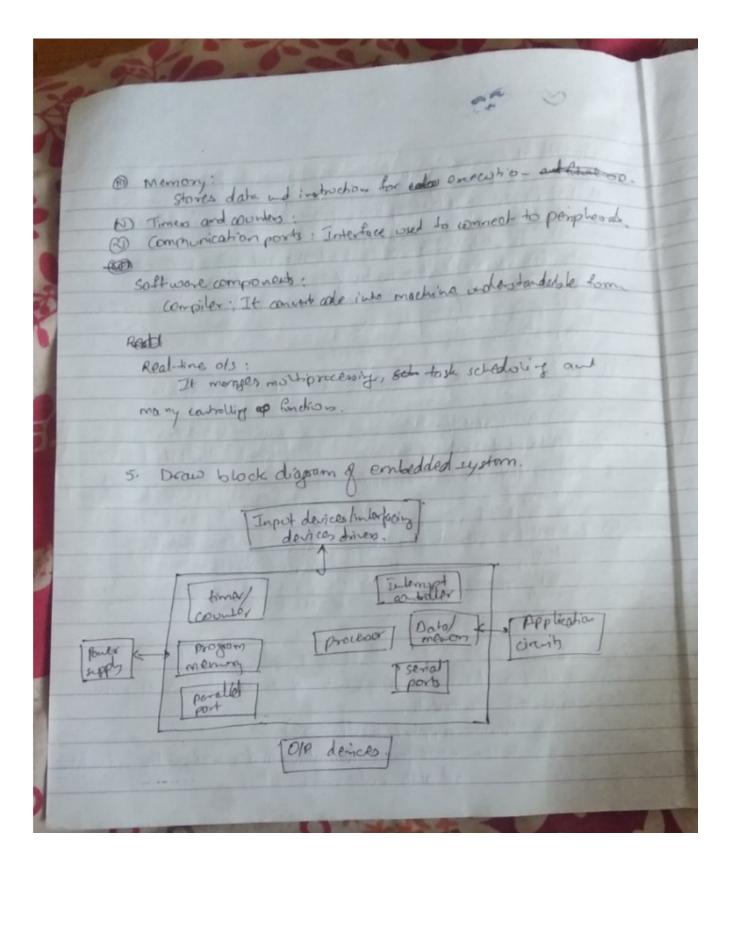
074BCT502 Abiral Neupane

Q 250	
Classical	The state of the s
Chapter 1	100 1 1-10 8
1) What is an embedded system? E	signin different applications of
embedded systems	redurant and adhirance designed
> A combination of computer to	or within a largon cyclem
embedded systems A combination of computer hordward and agtivare designed to do a specific function by itself or within a larger system It is managed by processous microntrollers, digital signal processor field programmable gate aways. Applies born:	
Geld goog amonable gast aux s.	1111
Application:	No. 200 1189
3) & Differentiate between microproce	emor and microcontroller.
3) & Differentiate between musepine	
microproclsso-	microcontroller.
1) It is heart group wer system	It is heart of embedded by yen.
a mann and 110 are connected	Theo internal memory and
(1) Nemony and 210 are connected enternally.	The internal memory and
A to used in control or mose	It is used in specific
1 is used in general purpose system.	purpose sy tem.
De Microprovenos are built	Microcotroller
as Hasard and today	distribution of the
What are the major compu	net of an ensedded cy dom?
10 Power supply weally 50).	
(1) Processor: Performs	logical sand arisethemetric calculations the system
and also abut	iols the system

3) What are proposes of ambidded systems? or Paris mayor purposes of enhanced systems are a) Reciency data: I has sersons dead input ports to recieve dute b) processing datas There Differed anithmetic ed by ed operations are done on no recited date c) Dulput ababaclata: The date of abiplayed or stored for five us 0) What is a design metric? Write its ingertance =) It is not actualized existen measurement system to measure physical capabilities of an enhadded system. Foreg - Unit cost, NPE cost, size, pepeed, menon flest billy maintainability ex Its importances are: 1) It gives positive impact on development process 1 market can be early identified a should 1 It ensures reliability of system. @ I helps in Blilling atient specific see requirements.

What do you mean by core of an embedded by stan? Embedded system are domain and application specific 50. and are built around control over core of the system a) he my of the following on core of the @ micro couldber @ Digital signal Processor. of Application specific IC. c) Bogrammable logic devices. d) commercial of the self components 8) Justily weather pacemaker and digital maker are examples of embedded system The cordiac pacemoker is an example of a complex embodded real desystem. It is designed to preform a specific Enchan It controlls heart my thin through sensing and poling operations. It has several operating modes with which can be selected by doctors. Sensors and achatas show realthe information Only embedded system can perform such back on smilety comers has an ois, storage, merrory, and different modes and solvings and sensors. Hence, it is also an evoledded system



16. Elaborate on deign drallages while densiting embalded my stem

a) a) Lack of necessary stem billy dor numing application

over an added system 5) security coins in a ledded eyela, ders d) Testesting and deliging is dithiult. 18. Key technologies used in encoded speker design. so possible and mornell morged as power failed is a =) Low pover derigi: mojor youre of embeddes system machine learning: Machine learning is a growing technology that makes the embadded system improve its efficients Embedded secrety. secondy is always of impostant. to destruction, hadingand other problem.