| e Continue en concerna   | Name is a second of the second |
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| Carbolines on California raphy (1944) Appetrologica  |  |
|  | ASSIGNMENT-1   |
| Qui -1   | Write the following statement in symbolic form. here,  |
|  | p: "The food is good"  |
|  | q: "The service is good"   |
|  | o: "The reating is there - star"   |
|  |  |
| a)   | Either the food is good, or the service is good, or both   |
| 104  | As 'v' allow both possibilities, as well as either   |
|  | of them so the statement required is   |
| The same of the sa | : pvg  |
| i  |  |
| 6)   | Either the food is good or the service is good, but both.  |
|  | This statement uses "enclusive or".  |
| 11.15  | It can be denoted as   |
|  | : (pnq)v(pnq) OR poq   |
|  | The state of the s |
| Co.  | FAA SA S  |
| 4  | The state of the s |

and on 1. PAGE NO. DATE: The food is good while the service is poor. "while" is interpreted as "and". Hence the statement is pring. It is not the case that both the food is good and the naiting is thouse - stan " It is not the case" implies negation. Hence the statement is n(pAr) e) If both the food and services are good, then the seating will be there - star. The statement is (p 19) -> 8 f) It is not true that a three star eating always means good food and good services. The statement is n(r -> (pnq)) Que-2. Wente the following statement in symbolic b: "The material is interesting" q: "The exercises are challenging" o: "The course is enjoyable" a) The material are interesting and the exercise are challenging. Here " and" implies conjunction. The statement is prog

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|--|--|
| (6)  | The material is a true   |
|  | are not  |
|  | The material is interesting and the eneucise are not challenging and the course is not enjoyable.  |
|  | enjoyable.   |
| And the state of t | "not" here implies negation. The statement   |
|  | is The Top 178.  |
|  |  |
| c)   | TI the autual is not   |
|  | If the material is not interesting, the energies   |
|  | enjoyable  |
| 1  | enjoyable  |
|  | The statement is (7p17g) -> 7r   |
|  |  |
| <i>a</i> )   | The state of the s |
|  | The material interesting means the exercise  |
|  | are challenging and conversely.  |
|  | Here conversely denotes bicondition. The   |
|  | statement is $p \leftrightarrow q$ or $p \rightleftharpoons q$ .   |
| (1)  | a defect of the state of decided the state of the  |
| ا( ا   | Either the material is interesting on the exercise   |
|  | are not challenging, but not both?   |
|  | It is denoting "exclusive or" . So, the statement  |
|  |  |
|  | can be denoted as (p@g) or (prg  |
|  | and the same of th |
|  |  |
| Que -3.  | Write the following in symbolic form   |
| 1 3/3/3  | A - 201  |
| a)   | The sun is bright and the humidity is not high?  |
|  | p: "The sun is bright"   |
|  | q: "The humidity is high"  |
|  | 4. The number of so sugar  |
|  |  |
|  | : p19  |
|  |  |
|  |  |
|  |  |

if we have PAGE NO. DATE: b If I finish my homework before dinner and it does not erain, then I weill go the ball game. Let p be the proposition" I finish my homework before dinner" and q be the proposition "It rains" and it be the proposition "I will go to the ball game." (pr ng) -> 8 O If you do not see me tomourous, it means I have go to chicago. Let p les the peroposition " you see me tomorrow" and q be the peroposition "I have go to chicago" : up - 9 If the utility cost goes up on the enquest for additional funding is denied, then a new computer will be purchased if and only if we can show that current computing facilities are indeed not adequate. Let p be the peroposition "The utility cost goes up" a be the proposition " The enquest for additional funding is denied", et be " a new competer will be purchased" and I be the peroposition " we can show that the current computing facilities are indeed adequate" .. (pvq) → (r → ns)

| Que 4  | tet p denote the statement "The weather is nice" and a denote the statement "we have a picnic". "Translate the following in English and simplify if possible |
|--|--|
|  | "The weather is rive and we do not have a plante"  |
| elections.   | "The weather is nice if and only if we have a picnic"  |
| <i>(c)</i>   | 9 → B "y we do not have a picnic, then the weather is not nice."   |
| d  | "It is not the case that the weather is not nice or we have a picuic on the weather is nice and we do not have a picuic."                                    |
|  |  |
| The second secon |  |