(1) & Algorithm for elective Courses

stel-1: create a structure "so tudent" steP-2: Declare name of size 40.

stef-3: SET count[3] = 80,0,03

step-4: Input the value of in from user.

SteP-8: Create another structure "student"

stel-6: SET 1=0

SteP-7: RePeat steP-8 while i43.

Step-8: SET i=it1.

SteP-9: PRINT 1+1.

Step-11: SET iso Again SET iso.

Ster-12: Refeat ster-13 while icn

Step-13: 8-SET 1=1+1.

Step-14: Input student[i] name from user.

SteP-13: Infat Student [i]. elective from user.

Stel-16: Refeat stel-6 again.

Step-17: Refeat step-18 While icn.

step-18: SET izitl.

Step-19: IF dudent [1]. elective =1

SET Count[0]= Count[0]+1.

ELSE IF student[i]. elective = 2

SET count[i] = count[i] +1.

ELSE

SET count[2] = count[2]+1.

ster-20: Declare variable x x and Intut x p

the user.

ster-21: Repeat ster-6 again.

ster-22: Rereat ster-23 while icus.

steP-23; SET i=1+1 again,

ster-24: IF student[i]. elective = x PRINT studentlij. name.

SteP-25: PRINT electives [0], count[0] PRINT electives [1], count [17 PRINT electives[2], count [2]

ster-26: IF countro] <3

PRINT % 5 students must chose another elective due to less number elective [o].

step-27: In Pot choice from user.

SteP-29: IF student [i]. elective = 1

SET student[i]. elective = choice.

SET Count [0] = count [0] -1 SET Count [choice - 1] = count [choice

step-29: If count[1]<3

PRINT % s students must chose another elective due to less number electives [1]

step-30: morerest in otep-6 again.
step-31: Refeat stop-32 while ico-

SEP-32 : BET 1=141.

SteP-33: IF student [i]. elective = 2

SET student [i]. elective = choice.

SET count [o] = count [o] - 1.

SET count [choice - i] = count [choice - i]

+1.

SteP-34; IF count[2] <3

PRINT % s students must chose another elective due to less number, electives[2].

SteP-38: Repeat steP-6 again.

SteP-36: RePeat steP-37 while ten.

Ste P-37: SET 1=1+1.

step-38: IF student[i]. elective=3.

SET student [i]. elective - choice.

SET count [0] = count [0] -1.

SET Court [choice - i] = court [choice - i] +1.

step-39: Refeat stef-6 again.

stel-40: Releat stel-41 While ic3.

Stel-41; SET 1=1+1.

ster-42: PRINT students in %s: electives [i].

stel-43; SET 1=0.

stel-44: Releat stel-48 while icn.

stel-48: BET 8= j+1.

step-46: IF student [3]. elective=i+1.

PRINT Student [i]. name.