and to the will

MID

AYON ROY

ID: 201714018

Dept: CSE-17

Sec: B

CSE-403

Aus. to the ques. no. - 1(a)

Defining the preconditions and effects fore the given actions are given below:

(i) STACK (X, X);

Precondition:

HOLDING(X) LABOLD AND CLEAR (Y) AND ON (X, Y)
ON TABLE (Y)

Effects ON (X,Y) AND CLEAR(X) AND ONTABLE(Y) AND ARMEMPTY.

GI) UN STACK (XXY)

Precondition:

ON (X,Y) AND CLEAR (X) AND ONTABLE (Y)
AND ARMEMPTY

Effects AND ON TABLE (Y) AND

HOLDING(X) ON TABLE (Y) AND

CLEAR(Y) AND

/

(iii) PICKUP (X):

Pre condition ?

CLEAR (X) AND ARMEMPTY AND AND ONTABLE (X) EFFECTS (F/X) NAMES (1)

HOLDING (X)

(IV) PUT DOWN(X):

Preconditions HOLDING (X)

(Y) BINATUS ONA (X) DALID INA (YX) HE

Effect:
ARMEMPTY AND ONTABLE(X) AND CLEAR (X)

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Ams to the ques . no. - 01(b)

Initial States

ON (B,A) AND ON (C,B) AND ONTABLE (A)

AND ARMEMPTY AND CLEAR(C)

Good State &

ON (B, C) AND ON (A, B) AND ONTABLE (C) AND CLEAR (A) AND ARMEMPTY?

PLANS

- OUNSTACK (C,B) AND
- 2) PUT DOWN (C) AND
- 3 UNSTACK (B,A) AND
 - @ PUT DOWN (B) AND
 - 6) PICK UP (B) AND
 - B STACK (B, C) AND
 - PPICK UP (A) AND
 - @ STACK (A,B) AND
 - @ CLEAR (A) AND ONTABLE (C)