

Model Answer

Question 1 [10 points]:

- 1.1 **F**; Basic language is an example of **Application** software
- 1.2 **F**; the **Compiler** is a translator system program used to translate a High-level language program into a Machine language program.
- 1.3 **T**
- 1.4 **F**; A **computer** is an electronic device capable of executing instructions based on algorithms stored in its memory.
- 1.5 **F**; **Machine language** is a program written using binary digits only

Question 2 [12 points]:

- 2.1 $Z = (X^2 + 1) / Y + 4 * \text{SQR}(X^4 + 1)$
- 2.2 **IF TAN(X-Y) = 0 THEN X = Y**
- 2.3 **FOR K = 10 TO 1000 STEP 5**
 $Z(K) = (K + 1) ^ (1/7)$
NEXT K
- 2.4 **SP = AX * BX + AY * BY**

Question 3 [12 points]:

3.1

$(A = 5)$	OR	$(B < 1)$	OR	NOT	Y
↓	↓	↓	↓	↓	
①	④	②	⑤	③	

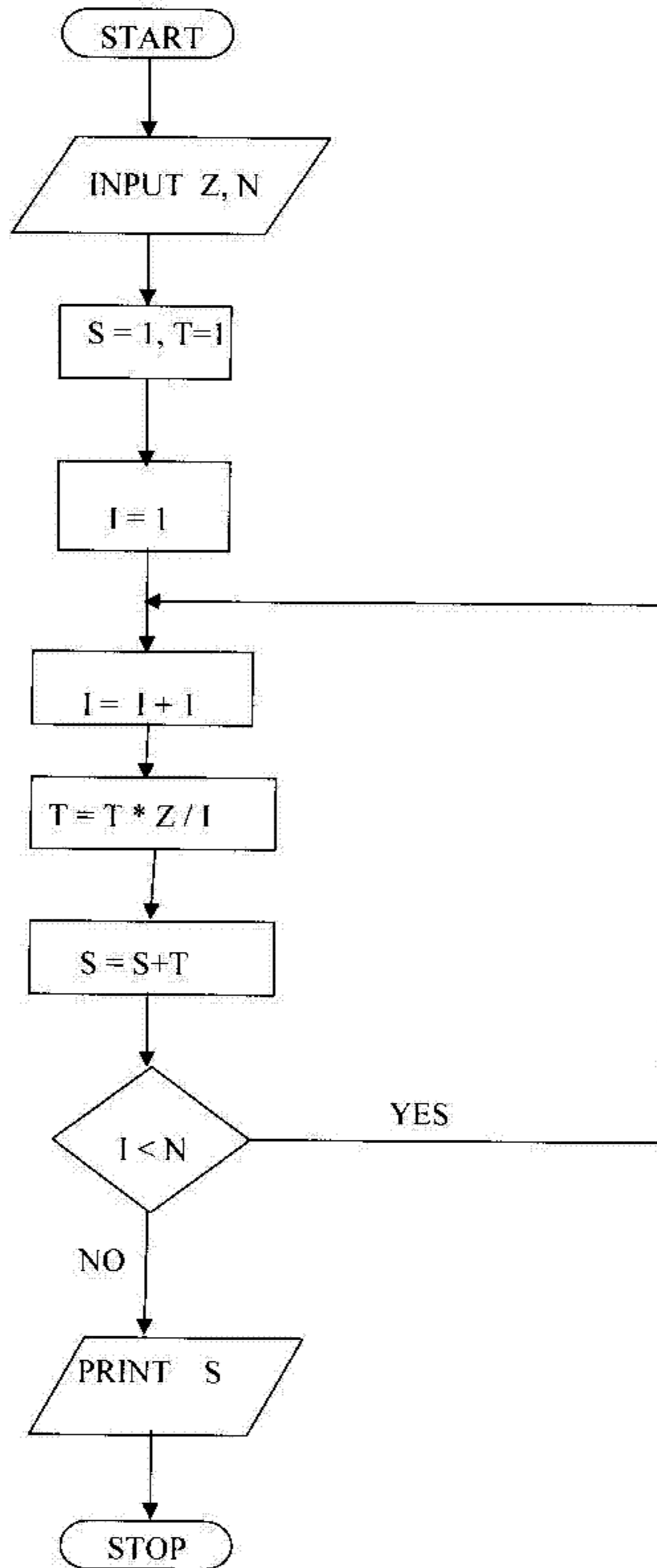
3.2

$(A -$	$B * C$	$<= 2)$	AND	Y	AND	Z
↓	↓	↓	↓		↓	
②	①	③	④		⑤	

3.3

$(A +$	$B) / C$	$-$	EXP(A	/	(C	+	A)	/	B)
↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
①	⑥	⑦	⑤	③	②	④				

Question 4 [16 points]:



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10      REM This program is used to compute expansion of EXP(Z) for first N terms.
20      INPUT " Enter values of Z, N "; Z ; N
30      S = 1
40      T = 1
50      FOR I = 2 TO N-1
60      T= T * Z / I
70      S = S + T
80      NEXT I
90      PRINT " EXP(" ; Z ; ")=" , S
100     END
```

Question 5 [10 points]:

- 5.1 Search for the location of Number 2 in the given array.
- 5.2 The output of the program is 4.
- 5.3 Number 2 not included in the given array.

(Good Luck)

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مع دعواتي بالتفوق