

QUESTION (1)

- (i) Given the following values: A=4.0 , B=2.0, C=4.0, D=2.0, F=2.0. Calculate the value of R for the following FORTRAN statements.

FORTRAN STATEMENT	ANSWER
$R=A**3-4.0**B/1.0+C**2/D*F$	R=64.0
$R=A**3-4.0**B/(1.0+(C**2/(D*F)))$	R=60.8
$R=(A**3-4.0**B)/(1.0+C**2/D/F)$	R=9.6

- (ii) Write the output of the following program:

```
REAL :: X,Y
CHARACTER(11)::COLLEGE
X=5.1
Y=12.23
COLLEGE="ENGINEERING"
PRINT'(1X,F7.2,2X,F4.2,1X,A4)',X,Y,COLLEGE(5:8)
STOP
END
```

ANSWER:

			5	.	0	1			*	*	*	*		N	E	E	R
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- (iii) Write the output of the following program:

```
K=0
DO I=1,2
  DO J=3,4
    K=K+J
  END DO
  K=K-I
END DO
PRINT *,K
STOP
END
```

ANSWER:

K=11

QUESTION (3)

Write a FORTRAN program (using IF-ELSE Statement) to calculate and print the sum of the integer **ODD** numbers from 1 to 19.

```
PROGRAM TEST_1
  IMPLICIT NONE
  INTEGER :: J,NUMBER,SUM
  J=1
  NUMBER = 1
  SUM = 0
10 IF(J.EQ.1)THEN
  SUM = SUM + NUMBER
  NUMBER = NUMBER + 1
  J = 2
ELSE
  NUMBER = NUMBER + 1
  J = 1
END IF
  IF(NUMBER.LT.20) GO TO 10
  PRINT*,SUM
END
```

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