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King Saud University
College of Engineering
Department Of Chemical Engineering

GE 209 Computer Programming
1st Semester 1429/1430 H
Time Allowed: 2 Hours



FINAL EXAMINATION

Question#	Mark
1	
2	
3	
4	
Total	

QUESTION (1) [10 Pts](i) **For the following equation:**

$$y = \frac{\sin x}{\sqrt{\frac{x+z}{z \cdot x}}}$$

CIRCLE the correct equivalent FORTRAN statement:

- (a) $y = \sin(x) / \text{sqrt}(x+z/z*x)$
 (b) $y = \sin(x) / \text{sqrt}((x+z)/x/z)$
 (c) $y = \sin(x) / \text{sqrt}(x+z/(z*x))$
 (d) $y = \sin(x) / \text{sqrt}((x+z)/z*x)$

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

```

K=9
N=4
K=K/N+K*REAL((N*4+3)/3)/3
N=K/N+N*INT((K*4.0+3.0)/3.0)/3
PRINT *,K,N
STOP
END

```

ANSWER:

K=	N=
----	----

(iii) **Write the output of the following program:**

```

INTEGER:: Y
LOGICAL:: AFLAG, BFLAG
AFLAG=.TRUE.
BFLAG=.FALSE.
IF(BFLAG.OR.AFLAG.AND.BFLAG)THEN
Y=4.5
ELSE IF(AFLAG.NEQV.BFLAG) THEN
Y=10.9
ELSE
Y=13.1
END IF
PRINT *,Y
STOP
END

```

ANSWER:

Y=
