

Past Paper (2019)

Question No. 3:-

$$f(x) = \begin{cases} x^{3/2} + 9x & \text{if } x < 0 \\ x^5 + 2\sqrt{x} + 5 & \text{if } 0 \leq x \leq 9.5 \\ |x| + 3.5 & \text{if } x > 9.5 \end{cases}$$

```

REAL X, F
WRITE (*, *) Enter the value of x.
READ (*, *) X
F = FUNC(X)
WRITE (*, *) value of function is = F
STOP
END

REAL FUNCTION FUNC(X)
REAL X
IF (X.LT.0) THEN
    FUNC = (X**3/2) + (9*X)
ELSEIF (X.LT.9.5) THEN
    FUNC = (X**5) + (2*SQRT(X) + 5)

```

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