

Day 2 Assignment

Ques 2

Evaluate following post-fix expressions.

(i) 2, 3, 4, *, +

$$\begin{array}{|c|} \hline 4 \\ \hline 3 \\ \hline 2 \\ \hline \end{array} \quad 3 \times 4 \quad \begin{array}{|c|} \hline 12 \\ \hline 2 \\ \hline \end{array} \quad 2 + 12 \quad \begin{array}{|c|} \hline 14 \\ \hline \end{array}$$

(ii) 5, 1, 2, +, 4, *, +, 3, -

$$\begin{array}{|c|} \hline 2 \\ \hline 1 \\ \hline 5 \\ \hline \end{array} \quad 1 + 2 \quad \begin{array}{|c|} \hline 4 \\ \hline 3 \\ \hline 5 \\ \hline \end{array} \quad 3 \times 4 \quad \begin{array}{|c|} \hline 12 \\ \hline 5 \\ \hline \end{array} \quad 5 + 12 \quad \begin{array}{|c|} \hline 3 \\ \hline 17 \\ \hline \end{array} \quad 17 - 3 \quad \begin{array}{|c|} \hline 14 \\ \hline \end{array}$$

(iii) 3, 4, 2, +, *, 5, *

$$\begin{array}{|c|} \hline 2 \\ \hline 4 \\ \hline 3 \\ \hline \end{array} \quad 4 + 2 \quad \begin{array}{|c|} \hline 6 \\ \hline 3 \\ \hline \end{array} \quad 3 \times 6 \quad \begin{array}{|c|} \hline 5 \\ \hline 18 \\ \hline \end{array} \quad 18 \times 5 \quad \begin{array}{|c|} \hline 90 \\ \hline \end{array}$$

(iv) 3, 4, *, 2, 5 *, +

$$\begin{array}{|c|} \hline 4 \\ \hline 3 \\ \hline \end{array} \quad 3 \times 4 \quad \begin{array}{|c|} \hline 5 \\ \hline 2 \\ \hline 12 \\ \hline \end{array} \quad 2 \times 5 \quad \begin{array}{|c|} \hline 10 \\ \hline 12 \\ \hline \end{array} \quad 12 + 12 \quad \begin{array}{|c|} \hline 22 \\ \hline \end{array}$$

(v) 7, 8, +, 3, 2, +, /

$$\begin{array}{|c|} \hline 8 \\ \hline 7 \\ \hline \end{array} \quad 7 + 8 \quad \begin{array}{|c|} \hline 2 \\ \hline 3 \\ \hline 15 \\ \hline \end{array} \quad 3 + 2 \quad \begin{array}{|c|} \hline 5 \\ \hline 15 \\ \hline \end{array} \quad 15 / 5 \quad \begin{array}{|c|} \hline 3 \\ \hline \end{array}$$