

Q. No 1(b)

Given
 Number of user inputs = 28
 Number of user outputs = 44
 Number of user inquiries = 7
 Number of files = 3
 Number of external interfaces = 2
 Effort = 37 P-M
 Technical document = 360 pages
 user document = 129 pages
 cost = Rs 8000 P-M

Information domain	count	weighing factor	FP count
no. of user inputs	28	4	112
no of user outputs	44	5	220
no of user inquiries	7	4	28
no of files	3	10	30
no of external interface	2	7	14
			<u>404</u>

Raw FP (count total) = 404

$$\sum Fi = 4 + 1 + 1 + 3 + 5 + 5 + 4 + 4 + 3 + 3 + 2 + 3 + 4 + 5$$

$$= 47$$

$$\text{Function point (FP)} : \text{Raw FP} \times [0.65 + (0.01 \times \sum Fi)]$$

$$= 404 \times [0.65 + (0.01 \times 47)]$$

$$= 452.48$$

$$\sim 453$$

$$\text{Productivity} = \frac{\text{FP}}{\text{effort}} = \frac{453}{37} = 12.24/\text{P-M}$$

$$\text{Total pages of documentation} = 360 + 129 \\ = 489$$

$$\text{Documentation} = \frac{\text{Pages of documentation}}{\text{FP}} \\ = \frac{489}{453} \\ = 1.0794$$

$$\text{Cost per function} = \frac{\text{cost}}{\text{productivity}} \\ = \frac{8000}{12.24} \\ = \text{Rs } 653.59 \text{ per function}$$