

Cumulative Frequency	a	25	c	43	48	f
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- 18] Find the mean of the following frequency distribution.

C.I.	0-100	100-200	200-300	300-400	400-500
f	2	3	5	2	3

[Marks:3]

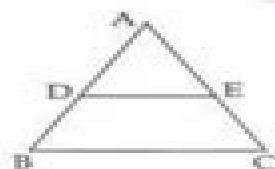
- 19] Prove that $\frac{\tan \theta}{1 - \cot \theta} + \frac{\cot \theta}{1 - \tan \theta} = 1 + \sec \theta \cdot \operatorname{cosec} \theta$

OR

[Marks:3]

Evaluate : $\frac{\sin 35^\circ}{\cos 55^\circ} + \frac{\cos 55^\circ \cdot \operatorname{cosec} 35^\circ}{\tan 5^\circ \tan 25^\circ \tan 45^\circ \tan 65^\circ \tan 85^\circ}$

- 20] In fig, DE || BC and AD : DB = 5:4, find $\frac{\text{area } \triangle DEF}{\text{area } \triangle CFB}$



[Marks:3]

- 21] If α, β, γ are zeroes of polynomial $6x^3 + 3x^2 - 5x + 1$, then find the value of $\alpha^{-1} + \beta^{-1} + \gamma^{-1}$.

[Marks:3]

- 22] Show that $6 + \sqrt{2}$ is irrational.

OR

[Marks:3]

Prove that $5 - \sqrt{3}$ is an irrational.

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Liyong Dong



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