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181ENT021007

COMPUTER ENGINEERING

FLUID MECHANICS

$$1. \text{ Specific weight of water} = 1000 \text{ kg/m}^3$$

$$\text{Specific weight of oil} = \frac{60}{1000} = 0.06 \text{ kg/m}^3$$

Q.C. Specific weight of oil = $\rho = \frac{G}{g}$

$$\text{Q.C. Specific weight of oil} = \frac{60}{1000} = 0.06 \text{ kg/m}^3$$

$$\text{S.I. } 300.00 =$$

$$= (1.66 \times 10^{-4}) \times 10^2 \times 10^3$$

Q.C. Volume of oil = $V = \frac{m}{\rho}$
Volume of oil = $V = \frac{300}{0.06}$

$$\text{Volume of oil} = \frac{300}{0.06} = 5000 \text{ m}^3$$

$$= 5 \times 10^3 \text{ m}^3$$

$$\text{Q.C. Volume of oil} = V = 5 \times 10^3 \text{ m}^3$$

$$\text{Q.C. Volume of oil} = V = \frac{m}{\rho} = \frac{300}{1.66 \times 10^{-4}} \text{ m}^3$$

$$\text{Q.C. Volume of oil} = V = \frac{300}{1.66 \times 10^{-4}} = 1.8 \times 10^8 \text{ m}^3$$

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Total Headlosses

Q.C. Headlosses

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Speed of rotation = ω rad/sec = $800 \text{ rev/min} \times \frac{\pi}{60} = 41.88 \text{ rad/sec}$

$$P_{\text{max}} = 1570 - 18000 \times 10^{-3} \text{ W}$$

$$\text{Power} = 1570 - 18000 \times 10^{-3} \text{ W}$$

$$\text{Actual Power} = 35200 \times 10^{-3} \text{ W} = 18000 \text{ W}$$

$$\text{Efficiency} = \frac{18000}{35200} \times 100\% = 51.18\%$$

$$\text{Process Power} = 18000 \times 10^{-3} \text{ W} = 18 \text{ kW}$$

$$\text{Actual Power} = 1570 \text{ W}$$

$$\text{Losses} = 18000 \text{ W}$$

Angular displacement = $800 \text{ rev} = 800 \times \frac{\pi}{100} \text{ rad} = 251.33 \text{ rad}$

Angular velocity = $41.88 \text{ rad/sec} \times 60 = 2510 \text{ rev/min}$

$$t = \frac{251.33}{41.88} = 6.00 \text{ sec}$$

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Angular velocity = $41.88 \text{ rad/sec} \times 60 = 2510 \text{ rev/min}$

$$t = \frac{251.33}{41.88} = 6.00 \text{ sec}$$

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Angular velocity = $41.88 \text{ rad/sec} \times 60 = 2510 \text{ rev/min}$

$$t = 6.00$$

$$\text{Time taken} = \frac{1}{41.88} = 0.0238 \text{ sec}$$

Angular velocity = $41.88 \text{ rad/sec} \times 60 = 2510 \text{ rev/min}$

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$$t = \frac{1}{41.88} = 0.0238 \text{ sec}$$

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$$X = 1000$$

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1. *Caloceras* *luteum* (L.) Benth.
2. *Caloceras* *luteum* (L.) Benth.
3. *Caloceras* *luteum* (L.) Benth.
4. *Caloceras* *luteum* (L.) Benth.
5. *Caloceras* *luteum* (L.) Benth.

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1928-1930
1930-1931

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1500

$\text{GDP} = \text{GDP}_{\text{real}} \times \text{P}_t$

1839-1840 - 1841 - 1842 - 1843

5-9-3285

$$= 5.833 \times 10^{-4} \times 1.73 \times 10^{-3}$$

600 ft.

Velocity of jet = 1 m/sec.

$$Q = \text{Volume/sec} = \frac{\text{Area} \times \text{Velocity}}{\text{Time}} = \frac{0.001 \times 1}{0.0015} = 0.6667 \text{ m}^3/\text{sec}$$

$$\text{Space occupied} = \frac{Q}{\text{Velocity}} = \frac{0.001}{0.6667} = 0.0015 \text{ sec}$$

$$t = \frac{30000 \text{ liters}}{0.0015 \text{ sec}} = 20000000 \text{ sec}$$

$$V = \frac{0.001 \times 0.0015}{0.001} = 0.0015 \text{ m}^3$$

$$= \frac{0.0015}{0.001} = 1.5 \text{ sec}$$

$$\text{Area of reservoir} = \frac{0.0015}{0.001} = 1.5 \text{ m}^2$$

Efficiency of pump = 0.82

$$1000 \times 0.81 \times 0.015$$

50

Water required

Head loss in pipe?

$$\text{Head loss in reservoir} = 30.546 - 28.318 = 2.228 \text{ m}$$

$$= 30.546 \text{ m}$$

$$= 30546 \text{ cm}$$

$$Q = 0.001^2 = 1000 \times 0.001^2 \times 9.8 \times 2.228$$

$$Q = \frac{1}{2} \pi D^2 (H_1 + H_2)$$

Efficiency of pump = 0.82

$$Q = 28318 = 28.318 \text{ m}^3$$

$$Q = \overline{Q_{av}} = 1000 \times 0.013 \times 66^2$$

$$Q = 0.001 + 0.001^2 \times 10.5 \cdot 0$$

$$Q = 0.001 + 0.001^2 \times 10.5 \cdot 0$$

4

$$= 0.8310$$

$$= 0.2628 \times 100$$

Power of expansion = Power of expansion of 5% of 100

$$\text{Power} = 0.8310 \times 0.981 \times 0.981 \times 0.981$$

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Expansion = 5% + 5% + 5% + 5%

Expansion = 20%

$$\text{Power} = 0.8310 \times 0.981 \times 0.981 \times 0.981$$

$$\text{Power} = 0.8310 \times 0.981 \times 0.981 \times 0.981$$

Expansion = 5% + 5% + 5% + 5%

Expansion = 20%

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Expansion = 20%

$$\text{Power} = 0.8310 \times 0.981 \times 0.981 \times 0.981$$

John

1. 633 रुपये ५ पैसे २ सेक्टर
2. १०१ रुपये ५ पैसे २ सेक्टर

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EXHIBIT H

1. *Pyrrhura* *caeruleata* (L.)

350-000-000-000

(0.031) $\frac{1}{4}$

~~✓ 2 x 9.81 x 0.06~~

$$\begin{array}{c} \text{L} \\ \text{G} \\ \text{X} \\ \hline \text{L} \\ \text{G} \\ \text{X} \\ \hline \end{array}$$

15.00 x 1000 = 15,000

$\text{I} = 0.56 \text{ A}$ in S_2 and $I = 0.60 \text{ A}$ in S_1

10:00 AM - 10:30 AM

2003-06-11 (X) 0.0000

340-8711 340-8711

60

$$S = \frac{1}{2} \times 0.018$$

$$= \frac{0.018}{2} = 0.009$$

$$= \frac{0.009}{0.01} = 0.9$$

$$S = \frac{1}{2} \times 0.009 = 0.0045$$

$$\text{Speed} = \frac{0.0045 \text{ m}}{0.01 \text{ sec}} = 0.45 \text{ m/sec}$$

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$$Q = 0.0045 \text{ m/sec.}$$

$$Q = 0.0045 \text{ m/sec.} - (0.0045 \text{ m/sec.}) \times 0.01 \text{ sec.}$$

$$Q = 0.0045 \text{ m/sec.} - 0.0045 \text{ m/sec.} = 0$$

$$Q = 0.0045 \text{ m/sec.}$$

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$$Q = 0.0045 \text{ m/sec.}$$

$$\text{Volume} Q \cdot t = 0.0045 \text{ m/sec.} \times 0.01 \text{ sec.} = 0.0045 \text{ m}^3$$

$$1.0 = 0$$

$$\text{Space} = 0$$

$$\text{Space} = 0.0045 \times 0.01 = 0.0045 \text{ m}^3$$

$$1.0 = 0$$

$$(Q_1 + Q_2) \cdot t = (0.0045 + 0.0045) \times 0.01 = 0.009 \text{ m}^3$$