Q-1

a) 0.02339 bar $= P_v$

b) $\omega = 14.7$ g/kgd.a

c) $\phi = 55\%$

d) $h = 67.73$

e) $v = 0.878$ m³/kgd.a

Q-3:

$P_v = 0.031$ bar

$\omega = 0.0198$ kg/kgd.a

$\phi = 35.6\%$

DPT $= 24.63°C$, $h = 74$ KJ/kgd.a

$$\frac{\omega}{\omega_{sat}} = \mu = \left(\frac{P_v}{P_T - P_v}\right)\left(\frac{P_T - P_s}{P_s}\right) = 33.6\%$$

Q-5:

SHF $= 0.46$

$m_s = 0.0075$ kg/kg.d.a

Q-6-:

DBT $= 31.5°C$, RH $= 78\%$

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Q-7 :

DBT = 10°C , R.H = 100%

$m_{condensate}$ = 0.297 kg/kg d.a

Q-8 :

DBT = 22.67 °C

m_s = 8.6 g/kg d.a

Q-9 :

t_2 = 10 °C

w_s = 0.0085 kg/kg d.a

Φ = 41.73 KJ/kg d.a

Q-10 :

d) SHF = 0.348

c) SH = 5066 KJ/min

LH = 9465 KJ/min

a) 333.3 kg/min.

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