SRR	ll No	
3.B. KU	H INO	

RAC EQUIPMENT 5th/RAC/5415/Nov'15

Duration: 3 hrs. M.Marks=75

SECTION – A			
Q1.	Fill up the blanks: 1x15=15		
a)	The compressor used in domestic refrigerator issealed.((hermetic/semi-hermetic)		
b)	The centrifugal compressors are generally used for refrigerator which require large displacement		
	and condensing pressure.(low/high)		
c)	Evaporator is transfer surface in which volatile liquid vapourises.(heat/mass)		
d)	Direct expansion evaporator is type evaporator.(flooded/dry)		
e)	In a refrigeration system having water cooled condenser, In a hot humid day the head pressure		
	will be(higher/lower)		
f)	There aretypes of condensers.(three/two)		
g)	In draft cooling tower, the fan is mounted near the exit. (Forced/induced)		
h)			
i)	The instrument which measures humidity of air is known as (pyrometer/hygromter)		
j)	In solar system, vapour system is used.(absorption/compression)		
k)	The solar power refrigeration system hasCOP.(low/high)		
l)	The COP of vapour compression system is than vapour absorption		
	system.(lesser/greater)		
m)	A expansion valve is preferred for the absorption system.(automatic/thermostatic)		
	is a device which is used to measure air flow rate.(pitot tube/psycrometer)		
0)	is used in the high pressure side of refrigeration system.(Evaporator/Condenser)		
	SECTION – B		
Q2.	Do any SIX. 6x5=30		
a)	Discuss the desirable properties of compressor lubricants.		
	Discuss the effect of fouling on condensers.		
c)	Define i)Tower approach ii)Tower range iii) Drift loss iv)Bleed off v)Make up water.		
d)	Explain low pressure cut switch.		
e)	Explain the working of hand pump.		
f)	Discuss the flooded type evaporator.		
	Explain the induced draft cooling tower.		
	Describe the inner view of dehydrator.		
i)	i) Write a short note on air cooling and air heating coils.		
	SECTION – C		
	Do any THREE. 10x3=30		
Q3.	Describe the rotary compressors with neat diagrams.		
Q4.	Explain an evaporative condenser with help of diagram.		
Q5.	Discuss different types of fans in detail.		
Q6.	Explain the desirable properties of different types of insulating materials.		
Q7.	Explain the solar power refrigeration system. Write down the advantages and disadvantages over vapour compression system also.		
Q8 .	Describe any two pressure measuring devices.		