

SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES & TECHNOLOGY THIRUVANANTHAPURAM—695 011, INDIA.

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WRITTEN TEST FOR THE POST OF TUNIOR TECHNICAL ASSISTANT (MRAC) – A (VOP)

DATE: 19/06/2017

TIME: 10.00 AM

DURATION: 60 MINUTES

TOTAL MARKS: 40

INSTRUCTIONS TO THE CANDIDATE

- 1. Write your Roll Number on the top of the Question Booklet and in the Answer Sheet.
- 2. Each question carries 1 mark.
- 3. There will not be any Negative Marking.
- 4. Write legibly the alphabet of the most appropriate answer in the separate answer sheet provided.
- 5. Over-writing is not permitted.
- 6. Marking more than one answer will invalidate the answer.
- 7. Candidate should sign on the question paper and Answer Sheet.
- 8. Candidate should hand over the question paper and Answer Sheet to the invigilator before leaving the examination hall.

Signature of the Candidate

WRITTEN TEST FOR THE POST OF JR. TECH ASST (MRAC) - (VOP) ON 19/06/2017

6. Ideal Power factor for electric supply is A. 1 B. 50 C. 230 II 7. Crank shaft is a part of A. Screw compressor C. Reciprocating composition and outdoor units A. Pour point C. Viscosity B. Floc point D. Acidity 9. Ammonia is A. R 22 B. R 502 C. R 11 D. Acidity 10. In compound system of multi-stage compression, two or more composited in A. Parallel C. Series B. Cascade D. Feedback method 11. Evaporator of a Split AC unit is in its A. Indoor Unit B. Outdoor Unit C. Pipe lines in between Indoor and Outdoor units D. No evaporator in Split AC units 12. How many chilled water pipe lines are seen in reverse return air consystem? A. 2 B. 1 C. 4 13. For a good duct - A.C system Aspect Ratio must be							
B. 0.000001 D. 1000000 One square metre is approximately	1.						
2. One square metre is approximately		C. 1000					
A. 30.48 B. 25.4 B. 25.4 B. 25.4 B. 25.4 B. 20.283 C. 1728 B. 0.0283 D. 1000000 4. Normal static pressure of an AHU (mm HG) is A. 40 to 75 B. 150 to 250 D. 2000 to 4000 5. Which of the following is a property of Refrigerant Oil? A. High Acidity B. High Floc Point D. High Dielectric S 6. Ideal Power factor for electric supply is A. 1 B. 50 C. 230 T. Crank shaft is a part of A. Screw compressor B. Centrifugal compressor C. Reciprocating con B. Centrifugal compressor D. Condenser 8. Term connected with paraffin content of Refrigeration Oil is A. Pour point C. Viscosity B. Floc point D. Acidity 9. Ammonia is A. R 22 B. R 502 C. R 11 C. Viscosity D. Acidity 9. Ammonia is A. R 22 B. R 502 C. R 11 C. Series D. Feedback method 11. Evaporator of a Split AC unit is in its D. No evaporator in Split AC units 12. How many chilled water pipe lines are seen in reverse return air consystem? A. 2 B. 1 C. 4 13. For a good duct - A.C system Aspect Ratio must be		D. 1000000					
B. 25.4 D. 10.76 3. A flow rate of 1 cubic metre per minute is cubic foot per minute (cfr. A. 35.315 C. 1728 B. 0.0283 D. 1000000 4. Normal static pressure of an AHU (mm HG) is A. 40 to 75 C. 500 to 1000 B. 150 to 250 D. 2000 to 4000 5. Which of the following is a property of Refrigerant Oil? A. High Acidity C. High Pour Point B. High Floc Point D. High Dielectric S D. High Pour Point B. High Floc Point D. High Dielectric S D. Cank shaft is a part of A. Screw compressor C. Reciprocating con B. Centrifugal compressor D. Condenser 8. Term connected with paraffin content of Refrigeration Oil is A. Pour point C. Viscosity B. Floc point D. Acidity 9. Ammonia is A. R 22 B. R 502 C. R 11 D. Acidity 9. Ammonia is A. R 22 B. R 502 C. R 11 D. Acidity 10. In compound system of multi-stage compression, two or more compression connected inA. Parallel C. Series D. Feedback method C. Pipe lines in between Indoor and Outdoor units D. No evaporator in Split AC units 12. How many chilled water pipe lines are seen in reverse return air consystem? A. 2 B. 1 C. 4 13. For a good duct - A.C system Aspect Ratio must be	2.	e feet.					
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B. 150 to 250 D. 2000 to 4000 Which of the following is a property of Refrigerant Oil? A. High Acidity B. High Floc Point C. High Pour Point B. High Floc Point D. High Dielectric S Light Floc Point C. High Pour Point D. High Dielectric S Light Floc Point C. 230 Light Floc Point C. 230 Light Floc Point C. Reciprocating contains and the second property of Refrigeration Oil is and the second proper	4.						
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7. Crank shaft is a part of A. Screw compressor B. Centrifugal compressor C. Reciprocating composed and the paraffin content of Refrigeration Oil is A. Pour point C. Viscosity B. Floc point D. Acidity 9. Ammonia is A. R 22 B. R 502 C. R 11 10. In compound system of multi-stage compression, two or more composed in A. Parallel C. Series B. Cascade D. Feedback method 11. Evaporator of a Split AC unit is in its A. Indoor Unit C. Pipe lines in between Indoor and Outdoor units D. No evaporator in Split AC units 12. How many chilled water pipe lines are seen in reverse return air consystem? A. 2 B. 1 C. 4 13. For a good duct - A.C system Aspect Ratio must be	6.						
A. Screw compressor B. Centrifugal compressor B. Centrifugal compressor C. Reciprocating composition of the		230 D. 44	10				
B. Centrifugal compressor B. Term connected with paraffin content of Refrigeration Oil is A. Pour point B. Floc point C. Viscosity B. Floc point D. Acidity 9. Ammonia is A. R 22 B. R 502 C. R 11 D. In compound system of multi-stage compression, two or more compression of a system of multi-stage compression, two or more compression of a Split AC unit is in its A. Parallel C. Series B. Cascade D. Feedback method 11. Evaporator of a Split AC unit is in its A. Indoor Unit B. Outdoor Unit C. Pipe lines in between Indoor and Outdoor units D. No evaporator in Split AC units 12. How many chilled water pipe lines are seen in reverse return air consystem? A. 2 B. 1 C. 4 13. For a good duct - A.C system Aspect Ratio must be	7.						
B. Centrifugal compressor B. Term connected with paraffin content of Refrigeration Oil is A. Pour point B. Floc point C. Viscosity D. Acidity D. Acidity D. Acidity D. Acidity D. Acidity D. Acidity C. Viscosity D. Acidity D. Acidity C. R 11 D. In compound system of multi-stage compression, two or more compression of a compound connected in A. Parallel C. Series B. Cascade D. Feedback method D. No evaporator of a Split AC unit is in its A. Indoor Unit B. Outdoor Unit C. Pipe lines in between Indoor and Outdoor units D. No evaporator in Split AC units C. 4 D. For a good duct - A.C system Aspect Ratio must be		C. Reciprocating compres	ssor				
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B. Floc point 9. Ammonia is A. R 22 B. R 502 C. R 11 10. In compound system of multi-stage compression, two or more compression of multi-stage compression, two or more compression of materials of the compound of the compression of a Split AC unit is in its B. Cascade D. Feedback method of the compression of a Split AC unit is in its A. Indoor Unit B. Outdoor Unit C. Pipe lines in between Indoor and Outdoor units D. No evaporator in Split AC units 12. How many chilled water pipe lines are seen in reverse return air compression of the compression o	8.	ion Oil is					
9. Ammonia is A. R 22 B. R 502 C. R 11 10. In compound system of multi-stage compression, two or more compression connected in A. Parallel C. Series B. Cascade D. Feedback method 11. Evaporator of a Split AC unit is in its A. Indoor Unit C. Pipe lines in between Indoor and Outdoor units D. No evaporator in Split AC units 12. How many chilled water pipe lines are seen in reverse return air consystem? A. 2 B. 1 C. 4 13. For a good duct - A.C system Aspect Ratio must be		C. Viscosity					
A. R 22 B. R 502 C. R 11 D. 10. In compound system of multi-stage compression, two or more comp		D. Acidity					
10. In compound system of multi-stage compression, two or more compound connected in A. Parallel C. Series B. Cascade D. Feedback method 11. Evaporator of a Split AC unit is in its A. Indoor Unit B. Outdoor Unit C. Pipe lines in between Indoor and Outdoor units D. No evaporator in Split AC units 12. How many chilled water pipe lines are seen in reverse return air consystem? A. 2 B. 1 C. 4 13. For a good duct - A.C system Aspect Ratio must be	9.						
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A. Parallel B. Cascade D. Feedback method 11. Evaporator of a Split AC unit is in its A. Indoor Unit B. Outdoor Unit C. Pipe lines in between Indoor and Outdoor units D. No evaporator in Split AC units 12. How many chilled water pipe lines are seen in reverse return air consystem? A. 2 B. 1 C. 4 13. For a good duct - A.C system Aspect Ratio must be	10.	, two or more compressor	's are				
B. Cascade 11. Evaporator of a Split AC unit is in its							
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 A. Indoor Unit B. Outdoor Unit C. Pipe lines in between Indoor and Outdoor units D. No evaporator in Split AC units 12. How many chilled water pipe lines are seen in reverse return air consystem? A. 2 B. 1 C. 4 13. For a good duct - A.C system Aspect Ratio must be 		D. Feedback method					
B. Outdoor Unit C. Pipe lines in between Indoor and Outdoor units D. No evaporator in Split AC units 12. How many chilled water pipe lines are seen in reverse return air consystem? A. 2 B. 1 C. 4 13. For a good duct - A.C system Aspect Ratio must be	11.						
C. Pipe lines in between Indoor and Outdoor units D. No evaporator in Split AC units 12. How many chilled water pipe lines are seen in reverse return air consystem? A. 2 B. 1 C. 4 13. For a good duct - A.C system Aspect Ratio must be							
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12. How many chilled water pipe lines are seen in reverse return air consystem? A. 2 B. 1 C. 4 13. For a good duct - A.C system Aspect Ratio must be	C. Pipe lines in between Indoor and Outdoor units						
system? A. 2 B. 1 C. 4 13. For a good duct - A.C system Aspect Ratio must be							
system? A. 2 B. 1 C. 4 13. For a good duct - A.C system Aspect Ratio must be	12.	reverse return air condition	oning				
13. For a good duct - A.C system Aspect Ratio must be							
		C. 4 D.	3				
	13.						
		C. In between 5 and 10					
B. Low D. Above 10		D. Above 10					

. WRITTEN TEST FOR THE POST OF JR. TECH ASST (MRAC) – (VOP) ON 19/06/2017

14.0	as s	cavenging system in	n hospital is t	o remove				
	A.	Refrigerant gases			C.	Carbon Monox	ide	
	В.	Oxygen			D.	Anaesthetic ga	ses	
15. N	Лegg	er (Electrical instru	ment) is used	d to check				
	A.	Voltage			C.	Current		
	В.	Insulation resistar	nce		D.	Capacitance		
16. L	Init c	of electricity in dom	estic meterin	g of KSEB is -				
	A.	KWH	B. KW	C.	K	VAR	D.	KV
17. A	ppro	oximate full load cui	rrent drawn l	oy a 5 hp indu	ıctio	n motor is		
	A.	25 A	B. 3 A	C.	7	A	D.	0.75 A
18. V	Vhich	of the following is	used to prote	ect electric m	otor			
	A.	Overload Relay			C.	Inductance		
	В.	Capacitor			D.	Strainer		
19. S	ingle	phasing in electric	ity distributio	on occurs wh	en			
	A.	All 3 phases of sup	pply remains	with low vol	tage			
	В.	Voltage in a single	phase supply	y exceeds a sa	afe li	mit		
	C.	Voltage in a single	phase supply	y drops belov	v 150) Volts		
	D.	One phase of a thr	ee phase sup	ply goes off a	nd o	ther two ON		
20. W	/hich	of the following is	part of refrig	eration cycle	?			
	A.	Fan			C.	Temperature s	enso	r
	B.	Condensing Coil			D.	Chilled water p	ump	3
21. In	refr	igeration cycle, hea	it is absorbed	by				
	A.	Condenser			C.	Compressor		
	В.	Evaporator			D.	Cooling Tower		
22.0	ne K	WH is approximate	ly equal to					
	A.	4500 BTU/hr			C.	12000 BTU/hr		
	В.	7500 BTU/hr			D.	3500 BTU/hr		
23. In	rela	tion to refrigeration	n, CFC stands	for				
	A.	Carbon Fluoro Car	bon		C.	Chloro Fluoro	Carbo	on
	В.	Carbon Fluoro Chl	orine		D.	Composite Fan	Curv	ve .
24. In	Ope	ration Theatres, air	is filtered to	high levels t	0 -			
	A.	Reduce infection			C.	Increase coolin	g	
	В.	Reduce cooling			D.	Reduce air velo	city	
25. In	chill	ed water central A	C system, the	temperature	of the	ne cooled water	is ab	out
	A.	4.4 to 7.2 Degree (3		C.	20 Degree C		
	B.	7 Degree C			D.	Zero Degree C		
26. In	refr	igeration cycle mai	nly there are	process	es.			
	A.	a large number of			C.	1		
	R	8			D	4.		

27. Most	air conditioners have their capacity rated in		
A.	BTU (British Thermal Unit)	C.	Kgs
В.	KWh	D.	Watts
28. A hig	hly humid environment is very		
A.	Favorable for reducing load on ac unit		
В.	Pleasant		
C.	Ideal for equipment loads	3	
D.	Uncomfortable		
29	is often referred as the heart of the AC sys	stem	
A.	thermostat	C.	compressor
В.	cooling coils	D.	refrigerant
30. The d	uct system of air conditioning is to		
A.	control humidity		
B.	provide a control path for chilled water		
C.	provide a control path for air flow		
D.	control micro organism		
31. Referr	ring to A.C. ducting, the system where all th	ie bra	anch ducts starts at the same
locatio	on is called		
Α.	plenum	C.	filter point
В.	central duct	D.	AHU inlet
32. Fresh	air system is always recommendable for		
Α.	blood storage rooms	C.	clinical labs
B.	operation theatres	D.	patient waiting areas
33. Capaci	ty of AHUs are normally expressed in		
A.	Number of RPM	C.	Cycle of operation
В.	Kg	D.	TR (Ton Refrigeration)
34. Degree	e Celsius is the unit of		
A.	Temperature	C.	Pressure
В.	Heat	D.	Mass
35. With re	egard to Air-Conditioning, AHU generally me	eans	
A.	Air Humidifying Unit	C.	Air High-pressure Unit
B.	Air Holding Unit	D.	Air Handling Unit
36. Approx	kimate consumption of electric current by a	1.5 T	'R Window AC unit is
A.	10 A B. 100A C.	. 1.	D. 50 A
37. Which	of below mentioned instrument can be u	used	to measure electric current
drawn	by an air conditioner safely		
A.	Voltmeter		
B.	Watt meter		
C.	Megger		
D.	Tong tester		

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38. Comi	ortable range of R.H (Relative Humidity) relat	ea to	air conditioning is
A.	40% to 60%	C.	90% to 100%
В.	10% to 20%	D.	80% to 90%
39. Which	n of the following can be used to put out fire in	n an i	air-conditioner?
A.	02	C.	CO ₂
В.	Compressed Air	D.	Water
40. In an	AC system, thermal insulation is required for		
A.	Chilled Water Pipe	C.	Compressor
В.	Condenser Water Pipe	D.	Condenser Pump