

FINAL ANSWER KEY

Question Paper Code:	37/2018/OL
Category Code:	594/2017
Exam:	Junior Instructor MRAC
Medium of Question:	English
Date of Test	19-07-2018
Department	Industrial Training
Alphacode	A

Question1:-Who among the following is described as "First Generation Feminist" ?

- A:-Arya Pallam
- B:-Akkamma Cheriyan
- C:-Anna Chandi
- D:-Parvathy Nenmenimangalam

Correct Answer:- Option-C

Question2:-Which film got the 'Best Film Award in the `89^(th)` Oscar Award Ceremony in 2017 ?

- A:-Fences
- B:-Moonlight
- C:-La La Land
- D:-Lion

Correct Answer:- Option-B

Question3:-Who was called the Lincoln of Kerala ?

- A:-Ayyankali
- B:-Pandit K. P. Karuppan
- C:-Sree Narayana Guru
- D:-Sahodaran Ayyappan

Correct Answer:- Option-B

Question4:-Who wrote the autobiography 'Aathmakadhakkoru Amukham' ?

- A:-Lalithambika Antaranam
- B:-A. V. Kuttimalu Amma
- C:-Lalitha Prabhu
- D:-K. Devayani

Correct Answer:- Option-A

Question5:-Which part of the Indian Constitution contains the Fundamental Rights ?

- A:-Preamble
- B:-Part II
- C:-Part III
- D:-Part IV

Correct Answer:- Option-C

Question6:-Name the first private bank in Kerala

- A:-The Imperial Bank
- B:-The Chartered Bank
- C:-The Indian National Bank
- D:-Nedungudi Bank

Correct Answer:- Option-D

Question7:-Where was the Paliyam road situated ?

- A:-Chendamangalam
- B:-Vaikom
- C:-Guruvayur
- D:-Udayamperur

Correct Answer:- Option-A

Question8:-From which place in Kerala the first newspaper Rajyasamacharam was published ?

- A:-Chirakkal
- B:-Vadakara
- C:-Ottapalam
- D:-Tellichery

Correct Answer:- Option-D

Question9:-Who founded Samatva Samajam ?

- A:-Vaikunda Swami
- B:-Chattampi Swamikal
- C:-Nitya Chaitanya Yati
- D:-Nataraja Guru

Correct Answer:- Option-A

Question10:-In which year the National Food Security Act was passed in India ?

- A:-2000
- B:-2007
- C:-2013
- D:-2017

Correct Answer:- Option-C

Question11:-Who was the Editor of the magazine 'Rasikaranjini' ?

- A:-Kerala Varma Valiyakoyi Thampuran
- B:-Ramakrishna Pillai
- C:-Kodungallur Kunhikuttan Thampuran
- D:-None of the above

Correct Answer:- Option-C

Question12:-Who was the translator of the conversation between Rabindranath Tagore and Sree Narayana Guru when they met at Sivagiri in 1922 ?

- A:-Dr. Palpu
- B:-R. Sankar
- C:-T. K. Madhavan
- D:-Kumaranasan

Correct Answer:- Option-D

Question13:-From which country Indian Constitution borrowed Federal System ?

- A:-Russia
- B:-Britain
- C:-Germany
- D:-Canada

Correct Answer:- Option-D

Question14:-Name the magazine founded by M. C. Joseph

- A:-Kalakaumudi
- B:-Keraleeyam
- C:-Yukthivadi
- D:-Prabodhanam

Correct Answer:- Option-C

Question15:-In which year the Hindus in Cochin got permission to temple entry ?

- A:-1936
- B:-1948
- C:-1950
- D:-1956

Correct Answer:- Option-B

Question16:-Name the movement founded by Vandana Siva

- A:-Navadanya Movement
- B:-Narmada Bachao Andolan
- C:-Chipko Movement
- D:-Plachimada Struggle

Correct Answer:- Option-A

Question17:-Who initiated the Kerala Granhasala Sangham ?

- A:-K. N. Panicker
- B:-P. N. Panicker
- C:-Ulloor S. Parameswara Iyer
- D:-Vallathol Narayana Menon

Correct Answer:- Option-B

Question18:-Which day is observed as World Teacher's Day ?

- A:-None of the above
- B:-October 5
- C:-November 5
- D:-December 5

Correct Answer:- Option-A

Question19:-Name the place where the play Atukalayilninnu Arangatheku was staged for the first time

- A:-Angadippuram
- B:-Pallimukku
- C:-Thirunavaya
- D:-Edakunni

Correct Answer:- Option-D

Question20:-Name the Travancore Diwan who gave permission to wear blouse to all those women who embraced Christianity

- A:-Colonel Munro
- B:-M. E. Watts
- C:-Thomas Austin
- D:-None of the above

Correct Answer:- Option-A

Question21:-Which colour wire is recommended for earthing as per IS code ?

- A:-Red
- B:-Blue
- C:-Black
- D:-Green

Correct Answer:- Option-D

Question22:-A Watt meter is used to measure _____

- A:-Only A.C. current
- B:-Only D.C. current
- C:-A.C. or D.C. power
- D:-A.C. voltage

Correct Answer:- Option-C

Question23:-Suitable motor for the compressor of a split Air Conditioner is _____

- A:-RSIR
- B:-CSIR
- C:-PSC or CSR
- D:-None of these

Correct Answer:- Option-C

Question24:-The relay used in H.C. Refrigerant is _____

- A:-LMS type
- B:-Voltage type
- C:-PTC type
- D:-Current type

Correct Answer:- Option-D

Question25:-What is the reason for overheating of the compressor of a Refrigerator ?

- A:-High working voltage
- B:-Poor condensation
- C:-Excess refrigerant in the system
- D:-All of these

Correct Answer:- Option-D

Question26:-The Latent Heat Value of `NH₃` Refrigerant is _____

- A:-650 BTU/lb
- B:-560 BTU/lb
- C:-565 BTU/lb
- D:-465 BTU/lb

Correct Answer:- Option-C

Question27:-De-foresting timer is used for _____ in frost free refrigerator.

- A:-Disconnecting the heater
- B:-Connecting the heater
- C:-Connecting and disconnecting the compressor
- D:-Operating compressor and heater

Correct Answer:- Option-D

Question28:-The eco-friendly refrigerant is _____

- A:-Freon-12
- B:-Freon-22

C:-Hydro carbon

D:-None of these

Correct Answer:- Option-C

Question29:-Drier Strainer is used in Refrigeration System for

A:-Removing dust from air flow

B:-Removing moisture and air from refrigerant

C:-Removing non-condensable gas from air

D:-Removing dust particles and moisture from refrigerant

Correct Answer:- Option-D

Question30:-Before compression, the condition of the Refrigerant is _____

A:-Low Pressure and Temperature Liquid

B:-High Pressure and Temperature Vapour

C:-Low Pressure and Low Temperature Gas

D:-High Pressure and Temperature Gas

Correct Answer:- Option-C

Question31:-Use of Heat exchanger is _____

A:-Super heats the liquid line

B:-Sub-cool the section line

C:-Heat exchanges suction line to discharge line

D:-Heat exchanges liquid line to suction line

Correct Answer:- Option-D

Question32:-Suction pressure of ice plant with `NH₃` Refrigerant is _____

A:-65 to 75 psig

B:-80 to 90 psig

C:-Below 30 psig

D:-Above 100 psig

Correct Answer:- Option-C

Question33:-In summer season the Air Conditioner trips though OLP. What is the reason ?

A:-Condenser may air block and ambient temperature is low

B:-Ambient temperature is low

C:-Condenser air block and high ambient temperature

D:-Over speed of condenser fan

Correct Answer:- Option-C

Question34:-Frost Free Refrigerator defrosting method is _____

A:-Hot gas defrosting

B:-Manual defrosting

C:-Water spray defrosting

D:-Electric heater defrosting

Correct Answer:- Option-D

Question35:-Water cooled condenser is used in _____

A:-Split air conditioner

B:-Window air conditioner

C:-Water cooler

D:-Central air conditioning plant

Correct Answer:- Option-D

Question36:-Secondary refrigerant is used in _____

A:-Milk Chilling Plant

B:-Chilling Plant

C:-Ice Plant

D:-All of these

Correct Answer:- Option-D

Question37:-The R.H. of air required for human comfort is _____

A:-25%

B:-75%

C:-50%

D:-None of these

Correct Answer:- Option-D

Question38:-On Psychrometric Chart wet bulb temperature lines are _____

A:-Horizontal

B:-Vertical

C:-Straight inclined sloping downward to the right

D:-Curved

Correct Answer:- Option-C

Question39:-Tachometer is used to measure _____

A:-Humidity in air

B:-Velocity of air

C:-Density of air

D:-Speed of compressor

Correct Answer:- Option-D

Question40:- -252°F is equal to _____ degree celsius.

A:- -160.7

B:- -167.7

C:- -150.77

D:- -157.77

Correct Answer:- Option-D

Question41:-An air conditioner consumes 5 Amps from 240 Volts and the PF is 0.8 its power is _____

A:-690 Watts

B:-985 Watts

C:-950 Watts

D:-960 Watts

Correct Answer:- Option-D

Question42:-_____ Compressor has less EER.

A:-Reciprocating Compressor

B:-Rotary Compressor

C:-Centrifugal Compressor

D:-Screw Compressor

Correct Answer:- Option-A

Question43:-An oil separator is installed in-between _____

A:-Receiver and Expansion Valve

B:-Compressor and Condenser

C:-Condenser and Receiver

D:-Evaporator and Compressor

Correct Answer:- Option-B

Question44:-Piercing valve is used to _____

A:-Recover the gas

B:-Pinch the charging line

C:-Release the gas out

D:-Recover the oil

Correct Answer:- Option-A

Question45:-Diameter of Capillary tube used in Refrigerator is _____

A:-0.055 inch

B:-0.0361 inch

C:-0.065 inch

D:-0.0255 inch

Correct Answer:- Option-B

Question46:-Automatic expansion valve controls the flow of Refrigerant to evaporator according to _____

A:-Pressure

B:-Temperature

C:-Pressure and Temperature

D:-None of these

Correct Answer:- Option-A

Question47:-Dry ice is used for

A:-Cooling water

B:-Cooling milk

C:-Preserving food stuffs

D:-None of these

Correct Answer:- Option-C

Question48:-Substitute of Freon-12 refrigerant is _____

- A:-134 a
- B:-Freon-22
- C:-Freon-11
- D:-None of these

Correct Answer:- Option-A

Question49:-Secondary Refrigerant is useful because _____

- A:-It is cheap
- B:-Easily available
- C:-It reduces the primary Refrigerant Piping
- D:-None of these

Correct Answer:- Option-C

Question50:-In Split air conditioners the following condenser is used _____

- A:-Forced convection air cooled
- B:-Natural Convection air cooled
- C:-Water cooled
- D:-Evaporative type

Correct Answer:- Option-A

Question51:-When is the Vacuum Pump used in refrigeration system ?

- A:-After gas charging
- B:-Before gas charging
- C:-Before leak arresting
- D:-Before oil charging

Correct Answer:- Option-B

Question52:-For easy bending and Flaring we use _____

- A:-Annealed copper tube
- B:-Plastic tube
- C:-Brass tube
- D:-M. S. tube

Correct Answer:- Option-A

Question53:-The Refrigerant for a Refrigerator should have _____

- A:-High sensible heat
- B:-Low latent heat
- C:-High latent heat
- D:-Low sensible heat

Correct Answer:- Option-C

Question54:-Most of the domestic Refrigerators work on the following Refrigeration system

- A:-Vapour Compression System
- B:-Vapour Absorption System
- C:-Thermo Electric System
- D:-Air Compression System

Correct Answer:- Option-A

Question55:-The dry bulb temperature and wet bulb temperature becomes equal at _____ % RH.

- A:-100%
- B:-90%
- C:-50%
- D:-None of these

Correct Answer:- Option-A

Question56:-The chemical formula of R. 22 refrigerant is _____

- A:-`C Cl₂F₂`
- B:-`CHClF₂`
- C:-`C ClF₂`
- D:-`CHCl₂F₂`

Correct Answer:- Option-B

Question57:-Halide torch is used for _____ Refrigerants.

- A:-Detect Leak of `NH₃`
- B:-Detect leak of `CO₂`
- C:-Detect leak of Freon group
- D:-None of these

Correct Answer:- Option-C

Question58:-Temperature control device used in Air Conditioner is known as _____

- A:-Thermostatic Expansion Valve
- B:-Thermostatic switch
- C:-A.E.V.
- D:-H.P.C.

Correct Answer:- Option-B

Question59:-Volumetric efficiency of a compressor is expressed in _____

- A:-Percentage
- B:-Calorie/Hr.
- C:-BTU/Hr.
- D:-Psig

Correct Answer:- Option-A

Question60:-Inverter Refrigerator is working under the principle of

- A:-Frequency modulating
- B:-Voltage modulating
- C:-Current modulating
- D:-None of these

Correct Answer:- Option-A

Question61:-Inverter Air Conditioner consumes _____ current.

- A:-More
- B:-Less
- C:-Very high
- D:-None of these

Correct Answer:- Option-B

Question62:-The term called triple point is _____

- A:-The temperature condition of a substance at solid state
- B:-The pressure condition of a substance at liquid state
- C:-The pressure/temperature condition is in balance at vapour state
- D:-The Pressure/Temperature condition in which a substance is in balance in solid, liquid and vapour state

Correct Answer:- Option-D

Question63:-Bi-metal thermostatis a device used in _____

- A:-Pressure circuit
- B:-TEV circuit
- C:-Defrosting circuit
- D:-Compressor circuit

Correct Answer:- Option-C

Question64:-Many bubbles in the liquid line sight glass are a sign that the system is

- A:-Properly charged
- B:-Contaminated with air
- C:-Under charged
- D:-Over charged

Correct Answer:- Option-C

Question65:-The main parts of a Rotary Compressor are _____

- A:-Cylinder and piston
- B:-Rotor and crank shaft
- C:-Roller and cylinder
- D:-All of the above

Correct Answer:- Option-C

Question66:-High side float valve is used in _____

- A:-Dry type evaporator
- B:-Non-frosting evaporator
- C:-Flooded type evaporator
- D:-All of the above

Correct Answer:- Option-C

Question67:-Modification of R-12 to R-134a refrigerant in a refrigeration system is called _____

- A:-Recovery
- B:-Retrofit
- C:-Refilling
- D:-Pump down

Correct Answer:- Option-B

Question68:-Car Air Conditioner is a _____ system.

- A:-Vapour absorption
- B:-Vapour Compression
- C:-Air Compression
- D:-None of these

Correct Answer:- Option-B

Question69:-Magnetic Clutch is used in _____

- A:-Split A/C
- B:-Window A/C
- C:-Car A/C
- D:-Package A/C

Correct Answer:- Option-C

Question70:-Chilling plant is called as _____

- A:-Direct A/C Plant
- B:-Indirect A/C Plant
- C:-Multi split A/C
- D:-None of these

Correct Answer:- Option-B

Question71:-Chilled milk temperature in a milk chilling plant is _____

- A:- -5°C to 0°C
- B:- 10°C to 12°C
- C:- 2°C to 10°C
- D:-None of these

Correct Answer:- Option-C

Question72:-Sling Psychrometer is used to measure _____

- A:-Relative humidity
- B:-Dry bulb and wet bulb temperature
- C:-Cooling and heating of air supply
- D:-None of these

Correct Answer:- Option-B

Question73:-Voltage type relay is used in _____ compressor motor.

- A:-CSIR
- B:-CSR
- C:-RSIR
- D:-PSC

Correct Answer:- Option-B

Question74:-For condenser flushing _____ is used.

- A:-CTC
- B:-Trichloro ethylene
- C:-Petrol
- D:-All of these

Correct Answer:- Option-B

Question75:-Mechanical Refrigeration system is also called as _____

- A:-Vapour absorption system
- B:-Vapour compression system
- C:-Liquid vapour system
- D:-All of these

Correct Answer:- Option-B

Question76:-Voltage type relay coil is connected to motor starting terminal is in _____

- A:-Series
- B:-Parallel
- C:-Series and parallel
- D:-Series at starting time then parallel

Correct Answer:- Option-B

Question77:-The starting capacitor value of a 1 Ton Split A/C is _____

- A:-40 to 60 mfd
- B:-80 to 100 mfd
- C:-100 to 120 mfd

D:-None of these

Correct Answer:- Option-B

Question78:-_____ method is used to detect leaks in Refrigeration system.

A:-Observation

B:-Soap Bubble

C:-Water tank dipping

D:-All of these

Correct Answer:- Option-D

Question79:-Finand tube type evaporator is used in _____

A:-Window AC

B:-Package AC

C:-Split AC

D:-All of these

Correct Answer:- Option-D

Question80:-Direct Cool Refrigerator is also called as _____

A:-Conventional type Refrigerator

B:-Frost free Refrigerator

C:-Non-frost Refrigerator

D:-None of these

Correct Answer:- Option-A

Question81:-The safest chemical to use for descaling is _____

A:-Sulphuric acid

B:-Diluted HCl

C:-Diluted Nitric acid

D:-Bleaching powder

Correct Answer:- Option-B

Question82:-The purpose of air filter in air conditioning system is _____

A:-To remove dust and dirt from air

B:-To remove dust from refrigerant

C:-To remove humidity from air

D:-To remove air from A/C space

Correct Answer:- Option-A

Question83:-In hot gas by pass method of capacity control of compressor, the hot compressed gas is _____

A:-By passed back to liquid line

B:-By passed back to suction line

C:-By passed back to evaporator line

D:-By passed back to liquid receiver

Correct Answer:- Option-B

Question84:-The capacity of refrigerator is expressed in _____

A:-Litre

B:-Tons of Refrigeration

C:-k Cal/TR

D:-None of these

Correct Answer:- Option-A

Question85:-Tap used to avoid water wastage is _____

A:-Push tap

B:-Ball tap

C:-Lever type tap

D:-Regulating tap

Correct Answer:- Option-A

Question86:-Floor level of water cooler to be checked by _____

A:-Measuring scale

B:-Viewing perpendicularly

C:-Using spirit level

D:-Using tube level

Correct Answer:- Option-C

Question87:-Dead nut is used in Refrigeration flare fittings _____

A:-For closing a connection end

B:-For controlling a line

C:-For operating on and off

D:-None of these

Correct Answer:- Option-A

Question88:-The bush bearing of a compressor is lubricated by _____

A:-Oil

B:-Grease

C:-Refrigerant

D:-Air and water

Correct Answer:- Option-A

Question89:-Cylinder colour code of R134 a is _____

A:-Orange

B:-Green

C:-White

D:-Orchid

Correct Answer:- Option-C

Question90:-What is the use of Crank case oil heater ?

A:-Heats up the oil when compressor is idle

B:-Heats up the oil when compressor is ON

C:-Heats up the Refrigerant in crank case

D:-None of these

Correct Answer:- Option-A

Question91:-Pressure relief valve is installed on _____

A:-Compressor head

B:-Liquid receiver

C:-Discharge line of compressor

D:-All of these

Correct Answer:- Option-D

Question92:-H.C. blend contains _____

A:-40% isobutene and 60% propane

B:-50% isobutane and 50% propane

C:-50% hydrogen and 50% carbon

D:-50% fluorine and 50% oxygen

Correct Answer:- Option-B

Question93:-Fan motor of split Air conditioner of 1 Ton capacity is _____

A:-PSC

B:-RSIR

C:-CSR

D:-Shade pole

Correct Answer:- Option-A

Question94:-Spray nozzles of cooling tower is used for _____

A:-Sprays the water from evaporator

B:-Sprinkle the water from condenser

C:-Sprays the water from chiller

D:-All of these

Correct Answer:- Option-B

Question95:-Evaporative condenser is used in _____

A:-Ice plant

B:-Split air conditioner

C:-Package air conditioner

D:-Window air conditioner

Correct Answer:- Option-A

Question96:-Thermometer is to measure the _____

A:-Latent heat

B:-Sensible heat

C:-Thermo heat

D:-Specific heat

Correct Answer:- Option-B

Question97:-Duct is used to _____

A:-Distribute air from AHU to confined space

- B:-AHU to out side of A/C room
- C:-Return air from confined space to AHU
- D:-All of these

Correct Answer:- Option-D

Question98:-Pully Puller is used to remove _____

- A:-Fly wheel and bearings from shaft
- B:-Shaft from compressor
- C:-Piston from cylinderpully
- D:-Rings from piston

Correct Answer:- Option-A

Question99:-Three phase motor is used in _____

- A:-Package A/C
- B:-Multy split A/C
- C:-Central A/C Plant
- D:-All of these

Correct Answer:- Option-D

Question100:-Service valve is used for _____

- A:-Charging gas to system
- B:-Pressure testing
- C:-Evacuating
- D:-All of these

Correct Answer:- Option-D