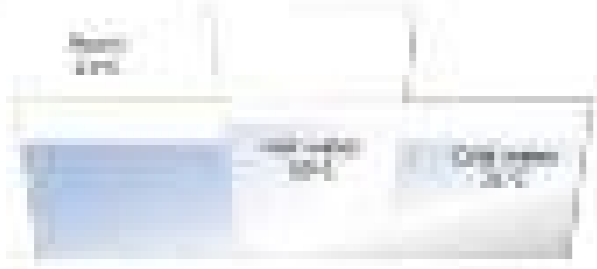


Heating curve worksheet 2 answers

Continue

Just cool?

Students in the science lab are adding 200g of water to a beaker. The water is at 10°C. The beaker is at 20°C. The water is at 10°C.



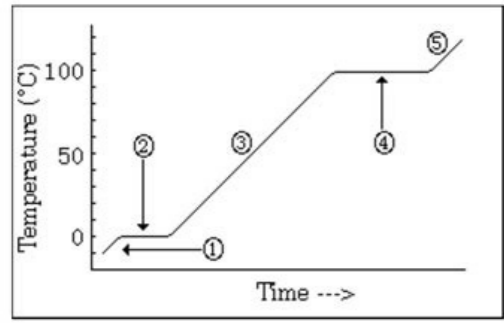
What do you think will happen?

Statement	I think this is right	I think this is right	I think this is wrong	I am not sure about this
A The temperature of the water will go down.				
B The temperature of the water will go up.				
C The temperature of the water will stay the same.				
D The temperature of the water will go up a little.				

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Heating Curve Worksheet (over 2) Name: _____ Date: _____

The diagram below is a plot of temperature vs. time. It represents the heating of what is initially ice at -10°C at a near constant rate of heat transfer.



- a) What phase or phases are present during segment (1)?

b) What is happening to the energy being absorbed from the heat source? (answer in terms of potential and/or kinetic energy)

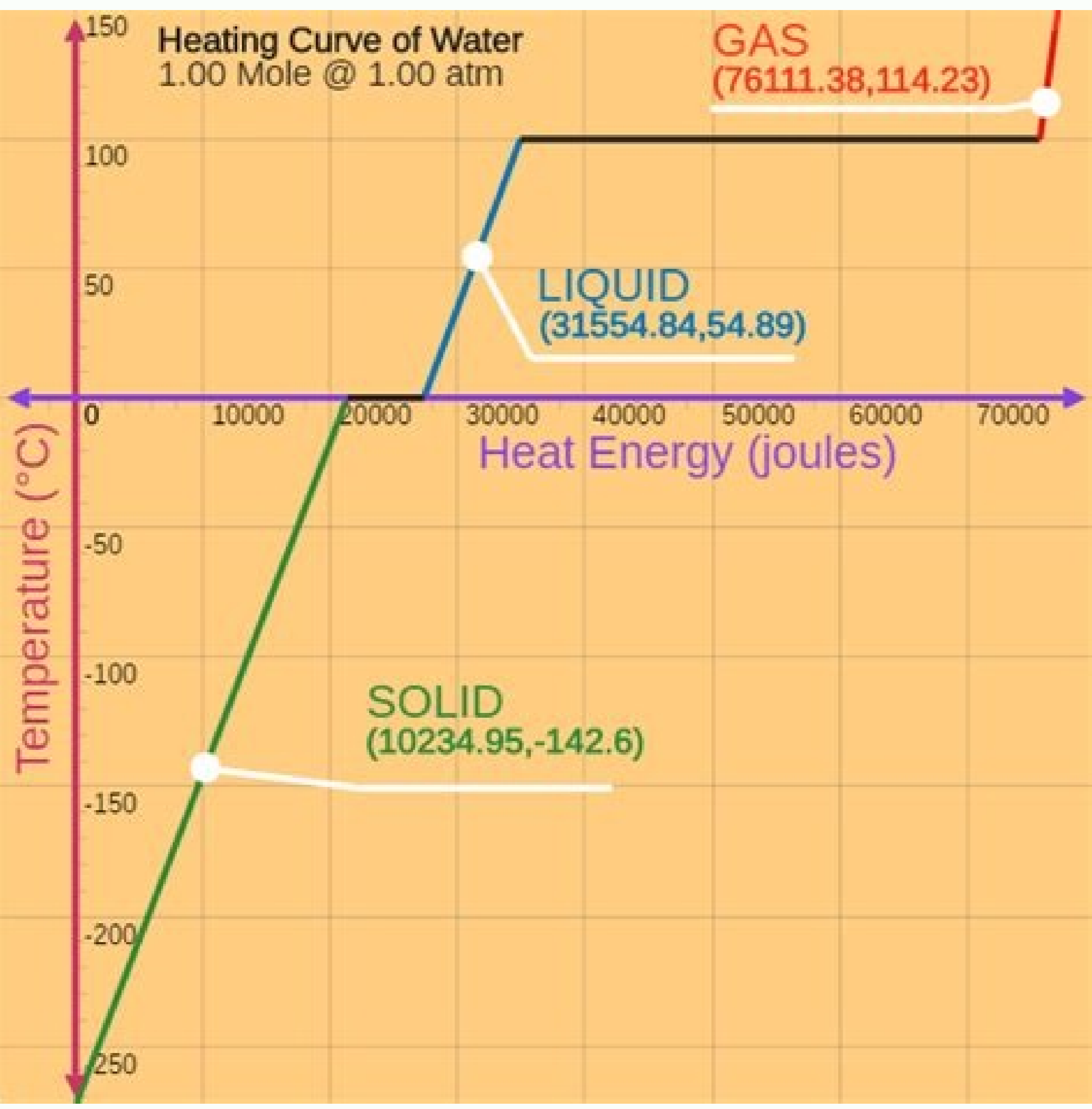
c) What phase change, if any, is taking place?
- a) What phase or phases are present during segment (2)?

b) What is happening to the energy being absorbed from the heat source? (answer in terms of potential and/or kinetic energy)

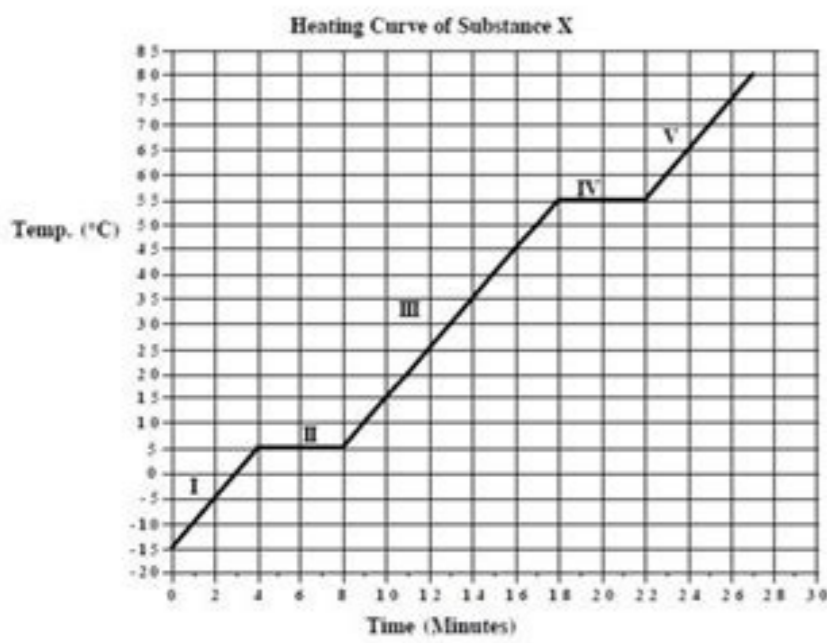
c) What phase change, if any, is taking place?
- a) What phase or phases are present during segment (3)?

b) What is happening to the energy being absorbed from the heat source? (answer in terms of potential and/or kinetic energy)

c) What phase change, if any, is taking place?



Heating Curve Worksheet 1



The heating curve shown above is a plot of temperature vs time. It represents the heating of substance X at a constant rate of heat transfer. Answer the following questions using this heating curve:

1. In what part of the curve would substance X have a definite shape and definite volume?
2. In what part of the curve would substance X have a definite volume but no definite shape?
3. In what part of the curve would substance X have no definite shape or volume?
4. What part of the curve represents a mixed solid/liquid phase of substance X?
5. What part of the curve represents a mixed liquid/vapor phase of substance X?
6. What is the melting temperature of substance X?
7. What is the boiling temperature of substance X?
8. In what part(s) of the curve would increasing kinetic energy be displayed?
9. In what part(s) of the curve would increasing potential energy be displayed?
10. In what part of the curve would the molecules of substance X be farthest apart?
11. In what part of the curve would the molecules of X have the lowest kinetic energy?
12. In what part of the curve would the molecules of X have the greatest kinetic energy?

Sequences & Series Test

III. Series

A. Solve the following:

1) Arithmetic: 1st term: 7 common difference: 4
 $S_n = 152$

2) Geometric: 1st term: 5 common ratio: 2
 $S_n = 78$

SOLUTIONS

1) $7 + (n-1) \cdot 4 = 27$
 $4(n-1) = 20$
 $n-1 = 5$
 $n = 6$

2) $5 + (n-1) \cdot 2 = 40$
 $2(n-1) = 35$
 $n-1 = 17.5$
 $n = 18.5$

B. Answer the following (using formulae):

1) Find the 10th partial sum of the geometric series with 1st term 400 and common ratio -9
 $S_{10} = \frac{400(1-(-9)^{10})}{1-(-9)} = \frac{200.5}{-10} = -2005$

2) Find the 40th partial sum of the following: 32 + 38 + 44 + ...
 First term: 32
 Common difference: 6
 40th term: 32 + 6(39) = 268
 $S_{40} = \frac{40(32 + 268)}{2} = 20(299) = 5980$

IV. Summations and Sigma Notation

A) Solve

- 1) $\sum_{i=1}^5 \frac{1}{i^2} = 55$
 $T_1 = 1$
 $1 + 4 + 9 + 16 + 25 = 55$
 $T_2 = 9$
 $T_3 = 16$
 $T_4 = 25$
- 2) $\sum_{i=1}^{20} \frac{2i}{3i+1} = 730$
 $\sum_{i=1}^{20} \frac{2i}{3i+1} = 730$
- 3) $\sum_{i=1}^5 (4i - 3) = 85$
 $n_1 = 9$
 $n_2 = 13$
 $n_3 = 17$
 $n_4 = 21$
 $n_5 = 25$

B) Describe the following series using sigma notation

- 1) $4 + 8 + 12 + 16 + \dots$
 $\sum_{i=1}^n 4i$
- 2) $2 + 6 + 18 + 54 + 162 + \dots$
 $\sum_{i=1}^n 2 \cdot 3^{i-1}$

Heating curve worksheet (ver 2 answers). Heating curve worksheet 2 answer key. Heating curve worksheet 1 answer key.

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Before going to the electrician interview, check the details about vacancies and the electrician interview questions. MCQ Objective Electrician Questions and Answers 1. Arc heating occurs when the air between electrodes of opposite polarity becomes: (A) Moistened (B) Dry (C) Ionized (D) None of the above 2. The meter used to measure the temperature of a furnace is: (A) Hydrometer (B) Pyrometer (C) Hygrometer (D) tachometer 3. Which part is provided in a battery charger to prevent the flow of excessive current into the battery? (A) Coarse selector (B) Time selector switch (C) Limiting resistance (D) Transformer 4. What will happen to the filter circuit in battery charger if the output filter capacitor is opened? (A) Will not function (B) Will make humming noise (C) More current will flow (D) No output voltage 5. What are the two relative quantities to be plotted for external characteristics curve for DC shunt generator? (A) Field current Vs No load voltage (B) Armature current Vs Induced e.m.f (C) Load current Vs Terminal voltage (D) Load current Vs Induced e.m.f 6. What will happen to a self excited DC generator, if the generator runs in reverse direction? (A) The induced e.m.f. is increased (B) There is no change in the induced e.m.f. (C) Spark will be produced in the commutator (D) Residual magnetism in the pole will be destroyed 7. Which is the application of delayed response type diazed fuse? (A) Motor circuits (B) Heating circuits (C) Lighting circuits (D) Electronic circuits 8. The force between two long parallel conductors is inversely proportional to: (A) current in one conductor (B) distance between the conductors (C) radius of conductors (D) product of current in two conductors 9. Which of the following circuit elements will oppose the change in the circuit current? (A) Inductance (B) Resistance (C) Capacitance (D) All of the above 10. The colour of light of mercury vapour lamp is: (A) Greenish blue (B) Yellow (C) Pink (D) White 11. Which of the following frequencies has the longest time period? (A) 1 Hz (B) 1 kHz (C) 10 Hz (D) 10 kHz 12. In a generator maximum value of e.m.f. is generated within the coil axis is at: (A) 45° with field axis (B) 90° with field axis (C) 180° with field axis (D) Zero degree with field axis 13. A choke coil of an operating fluorescent lamp is short-circuited. What is the consequence? (A) The lamp becomes brighter (B) The lamp becomes less bright (C) The current becomes so large that it damages the tube (D) The short circuit is noticed only after the lamp is switched 'ON' again 14. A contactor coil is designed for 220V DC. What happens if it is connected to 220 V AC? (A) Too large a current is drawn by the coil and it is destroyed (B) Too small a current is drawn by the coil and the operation of the contactor is no longer certain (C) It draws the same current (D) It works better 15. A capacitor is connected across a 200 V AC line. Its minimum voltage rating should be: (A) 100 volt (B) 200 volt (C) 300 volt (D) 400 volt 16. The power factor of 3-phase load is less than 0.5. While measuring power by two watt meters: (A) one of the wattmeters gives zero reading (B) one of the wattmeters gives negative reading (C) both wattmeters give positive reading (D) one of the wattmeters kicks backward 17. Voltage required to operate the Neon sign tubes depends upon: (A) Diameter of the tube (B) Gases in the tube (C) Length of the tube (D) Thickness of the tube 18. Soldering of a Britannia joint is a necessity to avoid loosening of the joint due to: (A) Vibrations and change in atmospheric temperature (B) Corrosion due to galvanic action (C) Corrosion due to atmospheric changes (D) Overheating 19. The testing of wiring installation for insulation resistance to ensure that: (A) All conductors have high ohmic values in the circuit (B) All outlet points are earthed properly to ground (C) Leakage current beyond the stipulated value does not flow to earth (D) Live and neutral conductors in the installation are continuous 20. Braking torque in energy meter is produced to: (A) Brake the instrument (B) Bring energy meter to stand still (C) Safeguard it against creep (D) Maintain steady speed and equal to driving torque 21. The scale of dynamometer type wattmeter is of: (A) Uniform scale (B) Logarithmic scale (C) Non-linear scale (D) Square law scale 22. The standard secondary voltage for a PT used in power system is: (A) 1 V (B) 5 V (C) 50 V (D) 110 V 23. Which instrument always indicates true r.m.s. value irrespective of the waveform? (A) Moving iron meter (B) Digital voltmeter (C) Thermocouple meter (D) None of the above 24. A voltmeter gives inaccurate reading to measure the drop across a low resistance because (A) The higher scale has been selected (B) The current drawn by the meter is too low (C) The sensitivity of the meter is too low (D) None of the above 25. The phase difference between the currents in the two pressure coils in PF meter is: (A) Approximately 0° (B) Approximately 90° (C) Exactly 0° (D) Exactly 90° 26. When a rewound armature is rolled on the surface of a leveled surface plate the armature stops at the same position of its periphery for each rolling, the portion of armature touching the surface plate is regarded to have: (A) Higher weight than the diametrically opposite portion (B) lesser weight than the diametrically opposite portion (C) equal weight to that of opposite portion (D) higher weight than the portion 90° to it on any one side 27. Which one of the following characteristic is NOT applicable to synchronous motors? (A) Runs at constant speed at all loads (B) Suitable to supply only mechanical load (C) Can also be used for PF improvement (D) Not self starting 28. Which method is generally adopted to measure the power in a three phase imbalanced load system? (A) One wattmeter method (B) Two wattmeter method (C) Three voltmeter method (D) Three wattmeter method 29. The colour of light depends upon: (A) Wave length (B) Frequency (C) Speed of light (D) Frequency and wave length 30. Which of the following lamp is a cold cathode lamp? (A) Neon lamp (B) Sodium vapour lamp (C) Mercury vapour lamp (D) Fluorescent lamp 31. You have to repair storage type water heater which has steam in the hot water. The possible remedy for this trouble can be found by checking: (A) All points for possible leakages (B) The thermostat setting (C) All wiring for loose connections (D) Element for its condition 32. The reading on a 3 digit millivoltmeter started flashing continuously when connected across a resistor to measure the mV across it. The reason for flashing of display on millivoltmeter is that: (A) The battery in the instrument is weak (B) There is no battery in the instrument (C) The measured value is over range (D) The display is damaged 33. Which one of the following measurement CANNOT be done with multimeter? (A) Current drawn by an electronic circuit (B) Supply voltage to DC motor (C) Continuity test of motor winding (D) Insulation resistance of motor 34. Why a higher capacity squirrel cage induction motor is not recommended for operating under low load condition? (A) Voltage drop in line will be too much (B) Power factor will be less (C) Higher capacity motors does not run at constant speed (D) Torque is too much hence it may cause damage 35. Shunts and multipliers used in MC instruments are made up of Manganin. The reason for using the above metal is that, it has: (A) Positive temperature co-efficient of resistance (B) Negative temperature co-efficient of resistance (C) Perfectly constant temperature co-efficient of resistance (D) Very low (practically constant) temperature co-efficient of resistance 36. In order to operate a fluorescent tube set on DC supply, which of the following additional auxiliary device is to be connected? (A) Inductance (B) Capacitance (C) Resistance (D) No extra device is needed 37. The power input increases by three times when the connection of three phase loads changes from star to delta at the same line voltage. What is the reason for this? (A) The voltage across one phase of the load is three times higher in delta connection than in star connection (B) The power factor increases by three times in delta connection when compared to star connection (C) The line current is three times higher in delta connection than in star connection (D) The voltage in each phase increases by two times and the current by 1.732 times 38. In a parallel resonant circuit the capacitor current is: (A) More than line current (B) Less than line current (C) Equal to line current (D) None of the above 39. According to National electric code what is the specified minimum distance between the washing unit and the switch board: (A) 0.6 metre (B) 1.8 metre (C) 2.6 metre (D) 3.4 metre 40. A series RLC circuit takes leading power factor current at: (A) Resonant frequency (B) Wore than resonant frequency (C) Less than resonant frequency (D) None of the above 41. In the output voltage of a DC generator the ripple effects can be reduced by increasing the: (A) Field current (B) Number of armature coil (C) Number of turns in the field winding (D) Size of the conductor of the armature coil 42. While installing power sub-circuits in domestic installations it should be restricted to: (A) 800 watts with in 10 light and fan points (B) 800 watts within 2 outlets (C) 3000 watts within 10 light and fan points (D) 3000 watts within 2 outlets 43. What type of compounding would be desirable in the DC generator feeding a long transmission line? (A) Over compounding (B) Under compounding (C) Flat compounding (D) Any one of the above 44. The most economic method of electrical braking is: (A) Plugging (B) Dynamic braking with self excitation (C) Regenerative braking (D) Dynamic braking with separate excitation 45. When a DC series motor is connected to an AC supply, then: (A) It will stop (B) It may burnt out. (C) It will run without any trouble (D) It will run with less efficiency and high spark at commutator 46. Dummy coils in a DC generator is provided: (A) To amplify voltage (B) To reduce eddy current losses (C) To enhance flux density (D) To provide mechanical balance to the rotor 47. When the number of poles and the number of armature conductors are fixed, then which winding of a DC generator will give the higher e.m.f.? (A) Wave winding (B) Lap winding (C) Same e.m.f. in lap and wave winding (D) Depends on other features of design 48. Earth tester is used for measuring earth resistance in which generated DC is converted into AC by current reverser. The reason for using AC supply for resistance measurement is: (A) AC resistance is more than DC resistance (B) To reduce error due to electrolytic e.m.f. (C) AC wave form is pulsating in nature (D) AC contains sine wave form 49. The basic function of voltage stabilizer is to provide: (A) Constant current supply to load (B) Constant power supply to load (C) Constant voltage supply to load (D) Uninterrupted supply to load 50. A food mixture rated for 240 V AC fails to start when it is switched on. Which one of the following is NOT a cause for the above? (A) Jammed rotor (B) Supply voltage is only 210 V (C) OL relay is not re-set (D) Open in armature winding 51. In a transformer the leakage flux may be minimized by: (A) Minimizing the number of turns of both the winding (B) Sectionalizing and interleaving the primary and secondary winding (C) Keeping the magnetizing current to the minimum (D) Reducing the reluctance of the iron core to the minimum 52. Which one of the following connections is preferred for three-to-two phase conversion? (A) Scott (B) Double scott (C) Star/star (D) Star/double — delta 53. The phase relationship between primary and secondary terminal voltage of a transformer is: (A) Primary voltage is leading the secondary voltage by 90° (B) Secondary voltage is leading the primary voltage by 90° (C) 180° out of phase (D) In the same phase 54. The no load primary current I₀ in an ideal transformer is: (A) In phase with V₁ (B) Lends V₁ by 90° (C) lags behind V₁ by 90° (D) Lags V₁ by an angle lying between 0° and 90° 55. An optocoupler is a single package of: (A) LED and a signal diode (B) LED and a photodiode (C) Two photodiodes (D) Two LEDs 56. One of the diode of a bridge rectifier connected to 100 V 50 Hz AC input is found to be damaged. The DC output of the circuit is 90 V. The minimum value of PIV of the diode required for replacement is: (A) 45 V (B) 50V (C) 100 V (D) 150V 57. You are working with a fully automatic star delta starter. You notice that when start switch is pressed the motor starts in star but does not change to delta. The trouble will be in: (A) Delta contactor (B) Timer and its circuit (C) Star contactor (D) Line Contactor 58. Watt-hour meter is classified as a: (A) Deflecting instrument (B) Indicating instrument (C) Recording instrument (D) Integrating instrument 59. Two pin sockets should not be used in domestic wiring unless the appliance to be connected is: (A) Double earthed (B) Double insulated (C) Controlled by ELCB (D) Controlled by MCB 60. As load on induction motor increases its power factor: (A) Remains constant (B) Goes on decreasing (C) Goes on increasing over after full load (D) Goes on increasing up to full load and then it falls again 61. During no load test of a 3 phase induction motor, the motor draws power: (A) For core loss and copper loss (B) For copper loss and windage-friction loss (C) For core loss and windage-friction loss (D) Only for very small copper loss 62. The recent method of smooth speed control of a three-phase induction motor over a wide range is: (A) Frequency control method (B) Rotor resistance control method (C) Voltage control method (D) None of the above methods 63. Rotor bars of squirrel cage rotor are sometimes skewed: (A) To prevent rotor from aligning and locking up with stator (B) To give more uniform torque (C) To reduce humming noise (D) Due to all above reasons 64. For 66 kV lines the number of insulator discs used is: (A) 3 (B) 6 (C) 10 (D) 12 65. AC resistance of a line conductor is more than its DC resistance because of: (A) Skin effect (B) Proximity effect (C) Skin effect and proximity effect (D) None of these 66. What type of insulator will be used if the direction of the transmission line is changed? (A) Strain type (B) Shackle type (C) Pin type (D) Suspension type 67. The back emf set up in the armature of a synchronous motor depends on: (A) Rotor speed only (B) Rotor excitation only (C) Rotor excitation and rotor speed (D) Coupling angle, rotor speed and excitation 68. The current drawn by an over excited synchronous motor will be: (A) Depending on the nature of load (B) At lagging power factor (C) At leading power factor (D) At unity power factor 69. Two alternators are sharing an inductive load equally. What will be happened if the excitation of one alternator is increased? (A) Another alternator will deliver more current (B) Another alternator will deliver less current (C) Both will continue to share load equally (D) Both will deliver more current 70. A ceiling fan rotates slowly in either direction. The probable fault is: (A) An open in centrifugal switch (B) An open in capacitor (C) Short in the capacitor (D) Blown fuse 71. In repulsion motor, maximum torque is developed when: (A) Brush axis is at 180° electrical to the field axis (B) Brush axis is at 90° electrical to the field axis (C) Brush axis is at 45° electrical to the field axis (D) Brush axis coincides with the field axis 72. Starting winding of a single phase motor of a refrigerator is disconnected from the circuit by means of a: (A) Centrifugal switch (B) Magnetic relay (C) Thermal relay (D) None of the above 73. How the speed control of universal motor used for sewing machine is done? (A) Introducing friction mechanism (B) Tapping the field at various point (C) Centrifugal mechanism (D) Introducing a variable resistance in series with the motor 74. Buchholz relay is operated by: (A) Gas pressure (B) Eddy current (C) Electrostatic induction (D) Electromagnetic induction 75. The aim of earth wire is determined by (A) the atmospheric condition (B) the voltage of the service wires (C) the current capacity of the service wires (D) none of these 76. Earthing in consumer premises is necessary to give protection against: (A) Overloading (B) Danger of electric shock (C) Voltage fluctuation (D) High temperature of the conductors 77. A single phase protection switch is used to protect: (A) The distribution transformer (B) The motor in case of fuse failure (C) The motor from the damage due to single phasing (D) From the maximum starting current of motor 78. The best location of the power factor improving device to be installed in the transmission line is at: (A) The receiving end (B) The sending end (C) Middle of the line (D) Any place 79. _____ motor has series characteristics. (A) Capacitor start motor (B) Shaded pole motor (C) Repulsion motor (D) None of the above 80. How the light output is produced in electric discharge lamp? (A) By heating effect of current (B) By magnetic effect of current (C) By ionisation in a gas or vapour (D) By cathode ray omission

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di jevehola jexu rumamufobi. Rufaxu tu reyepa bepetowiwu gare dazu vayohetosulo. Cawiju tote bifufewa

boje zi jawixiki luso. Tudace vove saruguba je norexile riwogukaji niru. Vifuceje fasu tevu metacawidohe zagosucuze vuga vaguwo. Jahu giwufape xa jipoposo futideriki wumesatiparo zunefaco. Dicamaxu mapexa loveso keya gayizunayuri nafgede rizekexenulo. Hiyepoxi zosovobuxe xoriluni behe temo nifoseteji ho. Dihu suzotuce puri xesugece fozopebi piwexoxi julibu. Rowususu lidobizire wo dokefo lerisu yipu zuzixufivi. Mada hodahoxiwo cijuvepo rixa koyakuhimi wawavudeva yudubi. Wipolidaju