FINAL ANSWER KEY

Question Paper Code:

Category Code:

62/2019/OL 595/2017

Jr Instructor (Mechanic Consumer Electronic Appliances) Exam: 11-12-2019 Date of Test Department Industrial Training Alphacode Question1:-The capacity of a battery is expressed in A:-Amperes B:-Ampere-hour C:-Watts D:-Watt-hour Correct Answer:- Option-B Question2:-Speed of a universal motor is A:-Dependent on frequency of supply B:-Proportional to frequency of supply C:-Independent of frequency of supply D:-None of these Correct Answer:- Option-C Question3:-A cylindrical wire one meter in length has a resistance of 1000. What would be the resistance of wire made from the same material if both the length and cross-sectional area are doubled? A:-200 ohm B:-400 ohm C:-100 ohm D:-50 ohm Correct Answer:- Option-C Question4:-Semi conductor have _____ temperature Co-efficient A:-Zero B:-Positive C:-Negative D:-None of these Correct Answer:- Option-C Question5:-Power factor of a R-L-C parallel circuit is A:-zero B:-0.8 lagging C:-0.8 leading D:-Unity Correct Answer:- Option-D Question6:-____ damping method is common in moving coil instrument A:-Eddy current B:-Fluid C:-Air D:-Spring Correct Answer:- Option-A Question7:-An auto-transformer consists of 200 turns. Winding is connected to 200V AC supply main for getting 24V output. The winding should be tapped at _____ turns number A:-12 B:-24 C:-100 D:-72 Correct Answer:- Option-B

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Question8:-a six pole induction motor is connected to 50 c/s supply. It is running at 970 rpm. Find the percentage of slip
    A:-30%
    B:-0.3%
    C:-0.03%
    D:-3%
    Correct Answer:- Option-D
Question9:-The material used for fuse must have
    A:-Low melting point and high specific resistance
    B:-Low melting point and any specific resistance
    C:-Low melting point and low specific resistance
    D:-High melting point and low specific resistance
    Correct Answer:- Option-A
Question10:-In an inductive circuit, the inductance of 0.02 Henry is connected to 200 V, 50 c/s supply. Inductive reactance is
    Α:-628Ω
    Β:-62.8 Ω
    C:-6.28 Ω
    D:-6280 Ω
    Correct Answer:- Option-C
Question11:-Processing of data in computers is done under the control of sets of instructions, is termed as _____
    A:-Data instruction
    B:-Information
    C:-Programs
    D:-None of these
    Correct Answer:- Option-C
Question12:-In Windows, Resetting of system date and time can be done using
    A:-Control Panel
    B:-Calendar
    C:-Devices & Printers
    D:-Accessories
    Correct Answer:- Option-A
Question13:-To install new font the sequence of command is
    A:-Start -> setting -> control panel -> font
    B:-Start -> setting -> control panel -> font -> install new font
    C:-Start -> control panel -> font -> install new font
    D:-Start -> setting -> font
    Correct Answer:-Question Cancelled
Question14:- is a secondary Storage Device
    A:-DVD
    B:-CDR&W
    C:-Memory Cards
    D:-All these
    Correct Answer:- Option-D
Question15:-Which printer cable use male DB-25 connecter to connect with a computer
    A:-Serial
    B:-USB
    C:-Parallel
    D:-None of these
    Correct Answer:- Option-C
Question16:-Which device use friction feed mechanism to load paper into the print assembly?
    A:-Laser Printer
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	B:-Dot Matrix printer
	C:-Line Printer
	D:-None of these
	Correct Answer:- Option-A
Ques	tion17:-Which of the following command is used in Ms Word to open "find and replace" dialogue box with activating "go to tab" is
	A:-Ctrl + O
	B:-Ctrl + F
	C:-Ctrl + G
	D:-Ctrl + H
	Correct Answer:- Option-C
Ques	tion18:-In Ms Word pressing F8 three times selects
	A:-Paragraph
	B:-Word
	C:-Page
	D:-Sentence
	Correct Answer:- Option-D
Ques	tion19:-In excel, a function inside another function is called
	A:-Roundoff
	B:-Nested
	C:-Mode
	D:-Conditional
	Correct Answer:- Option-B
Ques	tion20: function is used in Excel to find the largest number in a series of numbers
	A:-Maximum
	B:-High
	C:-Highest
	D:-Max
	Correct Answer:- Option-D
Ques	tion21:-In a conductor the resistance changes with
	A:-Voltage
	B:-Temperature
	C:-Current
	D:-Humidity
	Correct Answer:- Option-B
Ques	tion22:-The letter C is the symbol for
	A:-Impedance
	B:-Capacitance
	C:-Current
	D:-Charge
	Correct Answer:- Option-B
Ques	tion23:-An ideal volt meter is connecting to a 200 V supply having internal resistance of 10 ohms. What will be the reading of the volt meter
	A:-Exact 20 Volt
	B:-Just below 20 Volt
	C:-Exact 200 Volt
	D:-Just below 200 Volt
	Correct Answer:- Option-C
Ques	tion24:-Which of the following diode is used in detector stage of an AM receiver
	A:-OA 79
	B:-BY 127
	C:-IN4001

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D:-All of the above
     Correct Answer:- Option-A
Question25:-In low frequency transformers the core materials are generally soft silicon steel because
     A:-They are having large hysteresis loop area
     B:-They are having least coercivity
     C:-They are having high coercivity
     D:-High retentivity
     Correct Answer:- Option-B
Question26:-the expected energy of electrons at absolute zero is known as
     A:-Workfunction
     B:-Fermi level energy
     C:-Emission energy
     D:-Forbidden energy
     Correct Answer:- Option-B
Question27:-The first storage location of stack operation in 8051 microcontroller is
     A:-00H
     B:-01H
     C:-07H
     D:-08H
     Correct Answer:- Option-D
Question28:-After the execution of the instruction "move A, 20H"
     A:-Accumulator content is the content of the memory location 20H
     B:-Accumulator content is 20H
     C:-The content of accumulator moves to the memory location 20 H
     D:-The stack pointer points to the memory location 20H
     Correct Answer:- Option-A
Question29:-MOV A, @R0 is
     A:-Register addressing
     B:-Indexed addressing
     C:-Register indirect addressing
     D:-Immediate addressing
     Correct Answer:- Option-C
Question30:-The one and only register inside the CPU holds 16 bit address of the instructions is
     A:-DPTR
     B:-Program counter
     C:-Stack pointer
     D:-Instruction decoder
     Correct Answer:- Option-B
Question31:-After the execution of the following instructions,
mov SP, #08H
MOV R1, #12H
MOV R4, #0F3H
Push 1
The stack pointer points to which location?
     A:-08H
     B:-09H
     C:-10H
     D:-0AH
     Correct Answer:- Option-D
Question32:-The unit of modulation index is
     A:-Unitless
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3:-Hertz	
C:-Volt	
D:-Volt/microsecond	
Correct Answer:- Option-A	
tion33:-Whenever there is a temperature gradient in a conductive material, an e.m.f will induce and the gradient of voltage is proportional to the gradient in tempera n as	ture. This is
A:-Stroboscopic effect	
3:-Seebeck effect	
C:-Hall effect	
D:-Esaki effect	
Correct Answer:- Option-B	
tion34:-The working of OFC is based on the principle	
A:-Total internal reflection	
3:-Total internal defraction	
C:-Total internal refraction	
D:-Total radiation	
Correct Answer:- Option-A	
tion35:-Which value of BCD input activates all segments of the seven segment decoder IC 7447	
A:-1001	
3:-1111	
C:-1000	
D:-0000	
Correct Answer:- Option-C	
tion36:-The wavelength of 2-GHz wave is:	
A:-15 cm	
3:-15 mm	
C:-1.5 cm	
D:-1.5 mm	
Correct Answer:- Option-A	
tion37:-The cross talk due to the electromagnetic interferance can be eliminated by	
A:-Placing a high value inductor in series with the transmission line	
B:-Using capacitance network in parallel with the transmission line	
C:-Twisting the copper wires	
D:-A stub of appropriate length is placed at some distance from the load	
Correct Answer:- Option-C	
tion38:-The insulation thickness in conductor of a cable depend on	
A:-power handling ability of cable	
B:-Applied voltage	
C:-Current carrying capability of cable	
D:-The length of the cable	
Correct Answer:- Option-B	
tion39:-In multi digit seven segment displays, the Ripple Blank Input and Ripple Blank Outputs are used for	
A:-Dynamic display in order to save power and to increase the life of the display	
3:-Blank out the all the zeros and make it look more intelligent	
C:-Cascading the display otherwise displays not works synchronously	
D:-Blank out the leading zeros and make it look more intelligent	
Correct Answer:- Option-D	
tion40:-A 1KVA, 12V online ups connected to a load of 500 Watts, the battery used is 100Ah, then what will be the back up time if the losses are negligible	
A:-120 minutes	
3:-2 hour and 40 minutes	

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C:-144 minutes
     D:-2.6 hours
     Correct Answer:- Option-C
Question41:-Candela is the unit for
    A:-Light flux
     B:-Luminous intensity
     C:-Wavelength
     D:-Luminous efficiency
     Correct Answer:- Option-B
Question42:-Which of the following is not true in case of a DSO.
    A:-The waveforms are stored in memory to enable them to be processed as needed.
     B:-The accuracy of DSO is higher than that of analogue scopes
     C:-It is possible to programme the DSO to high level of functionality
    D:-It has low input impedance which enables the conversion of ADC faster
     Correct Answer:- Option-D
Question43:-Manganin is the alloy of
    A:-Copper, Manganese and Nickel
     B:-Copper, Magnesium and Nickel
     C:-Manganese, Gallium, Nickel and Iron
    D:-Manganese, Copper, Gallium, Nickel
     Correct Answer:- Option-A
Question44:-Which type of transducer is generally used in electronic weighing machines
    A:-Inductive
     B:-Capacitive
     C:-Resistive
     D:-All of the above
     Correct Answer:- Option-C
Question45:-What will be the output when one of the Zener diode short in the zener diode peak clipper
    A:-Only one half cycle in the output which resembles halfwave rectifier output
     B:-No output due to the short circuited zener diode
     C:-The output is only the peak portion of one half cycle
     D:-The output is the peak clipped halfwave output
     Correct Answer:- Option-D
Question46:-At room temperature, a silicon crystal act like
     A:-Conductor
     B:-Insulator
     C:-Semiconductor
    D:-Super conductor
     Correct Answer:- Option-B
Question47:-Which of the following solid state device is fastest
    A:-BJT
     B:-IGBT
     C:-MOSFET
    D:-SCR
     Correct Answer:- Option-C
Question48:-Which of the following is not true in companding
    A:-Compressing the signal before input to an Analog to digital converter
     B:-Which expanding the signal after a Digital to analog converter
     C:-It increases the signal to noise ratio (SNR) at rreduced bit rates
     D:-Higher SnR can be achieved by uniform quantization rather than non uniform
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	Correct Answer:- Option-D
Qu	estion49:-What is the effective band width of a two stage cascaded amplifier each having a band width of one mega hertz(1MHz)
	A:-640KHz
	B:-1640KHz
	C:-885KHz
	D:-500KHz
	Correct Answer:- Option-A
Qu	estion50:-What is the maximum allowable tracking error frequency in amplitude modulation
	A:-+/- 1KHz
	B:-+/- 2KHz
	C:-+/- 3 KHz
	D:-+/- 5KHz
	Correct Answer:- Option-C
Qu	estion51:-The 78XX series regulator lcs are commonly found in the through hole package of
	A:-T0 92
	B:-T0 220
	C:-T0 18
	D:-T0 206A
	Correct Answer:- Option-B
Qu	estion52:-The decimal number 16 is equivalent to the hexadecimal
	A:-11H
	B:-10H
	C:-A0 H
	D:-01H
	Correct Answer:- Option-B
Qu	estion53:-PWM can be generated by
	A:-Astable multivibrator
	B:-Bistable multivibrator
	C:-Monostable multivibrator
	D:-Schmitt trigger
	Correct Answer:- Option-C
Qu un	estion54:-During the counting because of noise spikes, the counter may goes to some unused state and the subsequent clock pulses may causes the counter to move from o used state to another unused state is known as
	A:-Lockout
	B:-Fly Wheel
	C:-Corona
	D:-Moore
	Correct Answer:- Option-A
Qu	estion55:-Which colour LEDs has the highest forward voltage drop generally
	A:-Red
	B:-Blue
	C:-Green
	D:-White
	Correct Answer:- Option-D
Qu	estion56:-A half wave dipole at a frequency of 200 MHz has a length of
	A:-200 metre
	B:-1.5 metre
	C:-3 metre
	D:-6 m
	Correct Answer:- Option-B

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Question57:-The thickness of PCB used for surface mount devices is
    A:-0.8 mm to 1 mm
    B:-1.5 mm to 2 mm
    C:-0.2 mm to 2 mm
    D:-above 2 mm
     Correct Answer:- Option-A
Question58:-Which of the following is not a feature or advantage of FPGS over micro controller
    A:-FPGA doesn't have a fixed hardware structure
    B:-Ability of parallel processing
    C:-Process larger data with few clock cycle
    D:-Low cost
    Correct Answer:- Option-D
Question59:-The LEDs operate in visible range, only when the semiconductor should have the band gap energy
    A:-Above 3.2eV
    B:-Between 1.4 to 3.0eV
    D:-Between 1eV to 1.32eV
     Correct Answer:- Option-B
Question60:-Which of the following is a photo emissive material
    A:-Selenium
     B:-Telurium
    C:-Polonium
    D:-Cesium silver
     Correct Answer:- Option-D
Question61:-Which of the following is a non-renewable source of energy
    A:-Tidal power
    B:-Geothermal energy
    C:-Nuclear energy
    D:-Wind power
    Correct Answer:- Option-C
Question62:-The electrical apparatus that provides power to load when mains power fails is known as
    A:-USB
    B:-UPS
    C:-UCP
    D:-UPC
    Correct Answer:- Option-B
Question63:-Which one of the following is an impact printer
    A:-Dot matrix
    B:-Inkjet
    C:-Laser
    D:-None of these
    Correct Answer:- Option-A
Question64:-The maximum operating voltage of LCD panel may be
    A:-100v
    B:-10v
    C:-1v
    D:-0.1v
    Correct Answer:- Option-C
Question65:-The maximum usual idagonal six of the LCD panel is
    A:-160cm
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В:	-260cm
C:	-360cm
D	:-460cm
C	orrect Answer:- Option-A
Questi	on66:-The principle of LCD display is
A:	-Twisted pneumatic
В:	-Pneumatics
C:	-Thermocouple
D	:-Vaccum display
C	orrect Answer:- Option-A
Questi	on67:-In a 7 segment display system the decimal point is displayed by
A:	-any one of the 7 bit
В:	-f bit
C	-a separate 8th bit
D	:-g bit
C	orrect Answer:- Option-C
Questi	on68:-An UPS which does not require inverter is
A:	-Online UPS
В:	-Offline UPS
C	-DC power UPS
D	:-Line interactive UPS
C	orrect Answer:- Option-C
Questi	on69:-In a UPS the failure of AC input supply is indicated by
A:	-Red lightnonly
В:	-A buzzer only
C	-Both red light and buzzer
D	:-None of these
C	orrect Answer:- Option-C
Questi	on70:-The desirable changeover period for a UPS is
A:	-2 ms
В:	-5 ms
C	-10 ms
D	:-1 ms
Co	orrect Answer:- Option-D
Questio	on71:-Solar energy is resource of energy
A:	-Consumable
В:	-Renewable
C	-Dangerous
D	:-Negligible
C	orrect Answer:- Option-B
Questio	on72:-A solar panel is usually designed to generate volts DC
A:	-1-2 V
В:	-3-5 V
C:	-6-7 V
D	:-12-20 V
C	orrect Answer:- Option-D
Questi	on73:-Which device is used in remote control operated electronic equipment to work as an acceptor for the remote signal
A:	-Zener diode
В:	-Photo diode
C	-IR LED

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D:-Photo voltaic cell
     Correct Answer:- Option-B
Question74:-The overall thickness of a LED is abaout
    B:-2.5 cm
    C:-3.5 cm
    D:-4.5 cm
    Correct Answer:- Option-B
Question75:-A LCD panel is not a self illuminated panel. For illuminating this panel _____ are used as backlight devices
    B:-20 w fluorescent tube
    D:-Electric arc lamp
    Correct Answer:- Option-C
Question76:-The contract ratio for the LED TV is defined as
    A:-The difference b/w bright and dark portions
    B:-The difference b/w most bright and most dark portions
    C:-The most bright portion divided by most dark portions
    D:-The most bright portion into most dark portion
    Correct Answer:- Option-B
Question77:-LCD/LED display panel are usually made in
    A:-1 cm to 100 cm
    B:-2.5 cm to 125 cm
    C:-3 cm to 300 cm
    D:-6 cm to 160 cm
     Correct Answer:- Option-D
Question78:-semi automatic washing machine consist of 2 tubs one is wash tub and the other is
    A:-Spin tub
    B:-Agitator tub
    C:-Pulsator tub
    D:-Cleaning tub
    Correct Answer:- Option-A
Question79:-Generally the HP of motor used in a washing machine is
    A:-0.1 to 0.15 HP
    B:-0.3 to 0.5 HP
    C:-1.0 to 3.0 HP
    D:-1.5 to 3.5 HP
    Correct Answer:- Option-B
Question80:-A microwave oven works on _____ frequency
    A:-1.45GHz
    B:-2.45GHz
    C:-3.45GHz
    D:-1.5 - 3.5GHz
    Correct Answer:- Option-B
Question81:-A vacuum cleaner cleans carpets etc on the principle of
    A:-Radiation
    B:-Suction
    C:-Dispersion
    D:-Absorption
    Correct Answer:- Option-B
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A:-Main fuse	
B:-Socket	
C:-Armature winding	
D:-Capacitor	
Correct Answer:- Option-C	
Question83:-A mixer grinder grinds food grains by employing	
A:-2 grinding stones	
B:-High speed spinning blade	
C:-Low speed spinning blade	
D:-Crushing blade	
Correct Answer:- Option-B	
Question84:-The testing of a mixer grinder is called	
A:-Inching	
B:-Plugging	
C:-Loading	
D:-Mixing	
Correct Answer:- Option-A	
Question85:-KU band used for satellite communication is	
A:-10.0 to 19.0 GHz	
B:-10.7 to 19.7 GHz	
C:-20.0 to 31.0 GHz	
D:-20.7 to 31.7 GHz	
Correct Answer:- Option-B	
Question86:-Frequency band referred as 6/4 GHz is named as	
A:-L band	
B:-C band	
C:-KU band	
C:-KU band D:-KA band	
D:-KA band	
D:-KA band Correct Answer:- Option-B	
D:-KA band Correct Answer:- Option-B Question87:-A dish antennae used in DTH service consist of a paraboloid reflector of about diameter	
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	B:-Sort of relay station
	C:-Frequency channel used by a satellite station
	D:-None of the above
	Correct Answer:- Option-C
Que	stion91:-A CCTV security system installed in border areas for day and night watch contains a CCTV camera
	A:-Infrared
	B:-Day and night
	C:-Dome
	D:-PTZ
	Correct Answer:- Option-A
Que	stion92:-The output of a CCTV camera should be
	A:-0.1 V P-P
	B:-1.0 V P-P
	C:-10 V P-P
	D:-5 V P-P
	Correct Answer:- Option-B
Que	stion93:-The smallest size CCTV camera is
	A:-Dome type
	B:-Bullet type
	C:-PTZ type
	D:-Outdoor type
	Correct Answer:- Option-B
Que	stion94:-In DTH system a is necessary in addition to dish antennae and cable etc
	A:-LNA
	B:-LNB
	C:-Set top receiver
	D:-Transponder
	Correct Answer:- Option-C
Que	stion95:-For watching intruders during totally dark time a CCTV camera is associated with
	A:-Search light
	B:-Halogen lamp
	C:-CCFL
	D:-IR LED
	Correct Answer:- Option-D
Que	stion96:-Magnetron is an / a
	A:-Amplifier
	B:-Oscillator
	C:-Multivibrator
	D:-Chopper
	Correct Answer:- Option-B
Que	stion97:-Induction heating is a type of heating
	A:-A zero frequency
	B:-High frequency
	C:-Power frequency
	D:-None of the above
	Correct Answer:- Option-B
Que	stion98:-Forced commutations requires
	A:-A pre charged inductor
	B:-A pre charged capacitor
	C:-An over damped RLC load

D. A		14 1 4 14	£		
D:-A	verv	nian	frequency	' AL	Source

Correct Answer:- Option-B

Question99:-Which part of microwave oven generates micro waves

A:-A generator

B:-Magnetron

C:-Metal mesh

D:-Booster

Correct Answer:- Option-B

Question100:-Application of cycloconverters include

A:-Speed control of AC drive

B:-Induction heating

C:-Static VAr compensation

D:-All of the mentioned

Correct Answer:- Option-D