PROVISIONAL ANSWER KEY

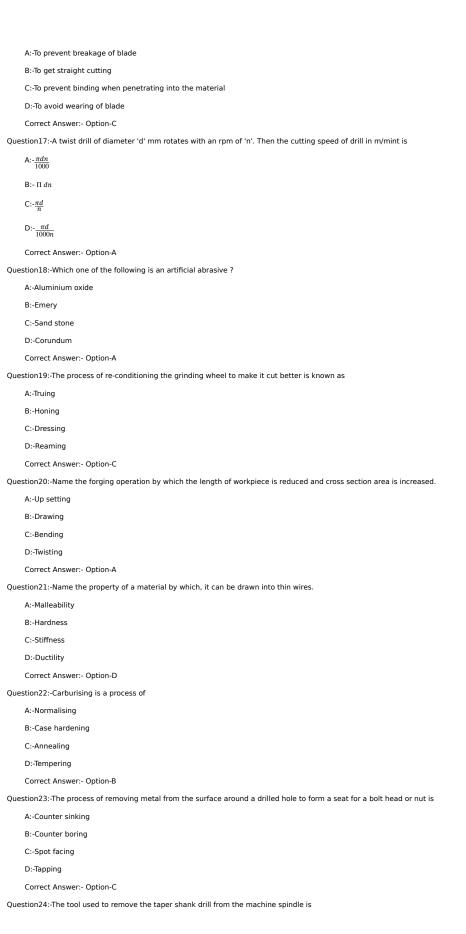
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Question Paper Code:

	Category Code:	124/2017
	Exam:	Assistant Crane Driver (Electrical)
	Date of Test	03-11-2020
	Department	Port
	Alphacode	A
Question1:-The tool, which	h is used for laying large cir	cles
A:-Trammel		
B:-Jenny Caliper		
C:-Divider		
D:-Scriber		
Correct Answer:- Op	tion-A	
Question2:-'V' groove of	V' Block is usually	
A:-60°		
B:-30°		
C:-120°		
D:-90°		
Correct Answer:- Op	tion-D	
Question3:-The point ang	le of centre punch is	
A:-120°		
B:-60°		
C:-30°		
D:-90°		
Correct Answer:- Op	tion-D	
Question4:-'V' Blocks are	available in grade of	
A:- A_1 and A_2		
B:-A and B		
$C:-B_1$ and B_2		
D:-0 and 1		
Correct Answer:- Op	tion-B	
Question5:-The least cou	nt of Vernier Bevel Protracto	ris
A:-1		
B:-10 [']		
C:-5		
D:-15		
Correct Answer:- Op	tion-C	
Question6:-Brass is an all	oy of	
A:-Copper and Tin		
B:-Copper and Zinc		
C:-Lead and Tin		
D:-Copper and Silve	r	
Correct Answer:- Op	tion-B	
Question7:-Galvanised iron, which is coated with		
A:-Zinc		
B:-Lead		
C:-Tin		
D:-Copper		

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Correct Answer:- Option-A
Question8:-Which one of the following is a part of combination set?
    A:-Stock
    B:-Square head
    C:-Thimble
    D:-Beam
    Correct Answer:- Option-B
Question9:-The size of a parallel jaw bench vice indicates
    A:-Maximum opening of jaws
    B:-Width of the jaw
    C:-Length of the body
    D:-Weight of the vice
    Correct Answer:- Option-B
Question10:-The value of one micron is
    A:-1 mm
     B:-0.1 mm
    C:-0.01 mm
    D:-0.001 mm
    Correct Answer:- Option-D
Question11:-'Watt' is the unit of
    A:-Work
    B:-Power
    C:-Energy
    D:-Force
    Correct Answer:- Option-B
Question12:-The least count of a steel rule is
    A:-1 mm
    B:-2 mm
    C:-0.5 mm
    D:-0.2 mm
    Correct Answer:- Option-C
Question13:-In a metric Vernier Caliper, 25 VSD is equal to 24 MSD. Then the least count will be
    A:-0.01 mm
    B:-0.02 mm
    C:-0.03 mm
    D:-0.04 mm
    Correct Answer:- Option-D
Question14:-1 cubic meter is equal to
    A:-1 Ltr
    B:-100 Ltrs
    C:-10000 Ltrs
    D:-1000 Ltrs
    Correct Answer:- Option-D
Question15:-Cupola furnace is used for producing
    A:-Pig iron
    B:-Mild steel
    C:-Cast iron
    D:-Stainless steel
    Correct Answer:- Option-C
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Question16:-Setting of Hacksaw Blade, is done



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B:-Socket
     C:-Punch
     D:-Drift
     Correct Answer:- Option-D
Question25:-As per BIS, a grinding wheel is specified as '51 A 46 L 5 V 23'. The term 'V' denotes
     A:-Type of Abrasive
     B:-Type of Bond
     C:-Grain size
     D:-Grade
     Correct Answer:- Option-B
Question26:-Which one of the following term is related to slip gauge?
     A:-Glazing
     B:-Wringing
     C:-Second cut
     D:-Loading
     Correct Answer:- Option-B
Question27:-As per Indian Standard, there are four grades of slip gauge. They are
     A:-Grade 1, 2, 3, 4
     B:-Grade 0, 1, 2, 3
     C:-Grade A, B, C, D
     D:-Grade 00, 0, 1, 2
     Correct Answer:- Option-D
Question28:-The size based on which all the dimensional deviations are given
     A:-Basic size
     B:-Actual size
     C:-Upper deviation
     D:-Lower deviation
     Correct Answer:- Option-A
Question29:-The size of a component is given as 25\pm^{0.08} _0.05 in a drawing. The tolerance of the component is
     A:-0.13
     B:-25.08
     C:-0.03
     D:-24.95
     Correct Answer:- Option-A
Question30:-Which one of the following is a solid lubricant?
     A:-Grease
     B:-Graphite
     C:-Castor oil
     D:-Lard oil
     Correct Answer:- Option-B
Question31:-In a single start thread, the lead is equal to
     A:-Half of pitch
     B:-Double the pitch
     C:-Pitch
     D:-None of the above
     Correct Answer:- Option-C
Question32:-The angle of acme thread is
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A:-Sleeve

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B:-29°
      C:-60°
      D:-47°
      Correct Answer:- Option-B
Question33:-Which one of the following tool angle is provided to avoid rubbing of the body of the tool with the workpiece?
      A:-Clearance angle
      B:-Helix angle
      C:-Rake angle
      D:-Lip angle
      Correct Answer:- Option-A
Question34:-For good gripping and appearance, which one of the lathe operation is performed?
      A:-Step turning
      B:-Finishing
      C:-Knurling
      D:-Taper turning
      Correct Answer:- Option-C
Question35:-TPI of a thread is 10. Then pitch is
      A:-1 inch
      B:-1.1 inch
      C:-0.01 inch
      D:-0.1 inch
      Correct Answer:- Option-D
Question36:-The 'change gears' for cutting single start thread on a lathe is given by
     A:-\frac{\text{Pitch to be cut}}{\text{Pitch of lead screw}} = \frac{\text{Driver}}{\text{Driven}}
      B:-\frac{Pitch \text{ of lead screw}}{Pitch \text{ to be cut}} = \frac{Driver}{Driven}
      C:-\frac{Depth \ of \ lead \ screw \ thread}{Depth \ of \ thread \ to \ be \ cut} = \frac{Driver}{Driven}
      D:-\frac{Depth of thread to be cut}{Depth of lead screw thread} = \frac{Driver}{Driven}
      Correct Answer:- Option-A
Question37:-A device which holds and locate a workpiece and guides the cutting tool is called
      A:-Fixture
      B:-Clamps
      C:-Jig
      Correct Answer:- Option-C
Question38:-To provide protective coating on Aluminium, which one of the following is suitable?
      A:-Galvanising
      B:-Cladding
      C:-Anodizing
      D:-Bluing
      Correct Answer:- Option-C
Question39:-Vice clamps are used to
      A:-Protect the serrated jaws of the vice
      B:-Protect the file
      C:-Hold the job firmly
      D:-Protect the finished surface of the job
      Correct Answer:- Option-D
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Question40:-Which one of the following indicates the grade of file ?

A:-55°

,	A:-Second cut
I	B:-Single cut
(C:-Double cut
1	D:-Rasp cut
(Correct Answer:- Option-A
Quest	tion41:-Which of the following is an example of linear measuring instrument?
,	A:-Straight edge
ı	B:-Steel rule
(C:-Spirit level
1	D:-Bevel protractor
(Correct Answer:- Option-B
Quest	tion42:-Caliper with one leg is bent and the other leg is straight called
,	A:-Hermaphrodite caliper
ı	B:-Inside caliper
(C:-Outside caliper
ı	D:-Vernier caliper
(Correct Answer:- Option-A
Quest	tion43:-Any mineral body from which metal can be economically recovered is called
,	A:-Alloy
1	B:-Element
(C:-Flux
ı	D:-Ore
(Correct Answer:- Option-D
Quest	tion44:-Furnace used for the production of cast iron is
,	A:- Blast furnace
	B:-Electric furnace
(C:-Cupola furnace
	D:-Reverberatory furnace
(Correct Answer:- Option-C
Quest	tion45:-Hand file is also known as
,	A:-Safe edge file
1	B:-Square file
(C:-Flat file
ı	D:-Needle file
(Correct Answer:- Option-A
Quest	tion46:-High carbon steel contains
,	A:-0.15% to 0.45% carbon
ı	B:-0.03% to 0.05% carbon
(C:-0.8% to 1.5% carbon
1	D:-0.03% to 0.10% carbon
(Correct Answer:- Option-C
Quest	tion47:-Galena is the ore of
,	A:-Aluminium
1	B:-Lead
(C:-Copper
1	D:-Tin
(Correct Answer:- Option-B
Quest	tion48:-Least count of Metric Vernier Caliper
,	A:-0.02 mm
1	B:-0.01 mm

C:-0.10 mm
D:-0.20 mm
Correct Answer:- Option-A
Question49:-Centre punch is ground to an angle of
A:-30°
B:-45°
C:-60°
D:-90°
Correct Answer:- Option-D
Question50:-In 18-4-1 H.S.S. tool, 18 represent the part of
A:-Chromium
B:-Molybdenum
C:-Tungsten
D:-Vanadium
Correct Answer:- Option-C
Question51:-Tool used for cutting internal thread into a hole
A:-Reamer
B:-Tap
C:-Die
D:-Stud extractor
Correct Answer:- Option-B
Question52:-A wedge like tool used to remove the taper shank drill from the nose of drilling machine spindle is
A:-Drill chuck key
B:-Chisel
C:-Allen key
D:-Drill drift
Correct Answer:- Option-D
Question53:-The direction of filing stroke is perpendicular to the axis of file in
A:-Straight filing
B:-Cross filing
C:-Draw filing
D:-None of these
Correct Answer:- Option-C
Question54:-The chisel used for cutting oil grooves in bearing is
A:-Round nose chisel
B:-Cross cut chisel
C:-Flat chisel
D:-Cold chisel
Correct Answer:- Option-A
Question55:-Thread usually found in screw jack
A:-V-Thread
B:-Acme thread
C:-Knuckle thread
D:-Square thread
Correct Answer:- Option-D
Question56:-A headless bolt threaded at both end is called
A:-Screw
B:-Stud
C:-Rivet
D:-Thread extractor

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Question57:-Fit adopted in cart wheel fixing
    A:-Shrink fit
    B:-Running fit
    C:-Push fit
    D:-sliding fit
    Correct Answer:- Option-A
Question58:-Which file has 100 to 120 teeth per 25 mm?
    A:-Rough file
    B:-Second cut file
    C:-Dead smooth file
    D:-Bastard file
     Correct Answer:- Option-C
Question59:-Liquid carburising is also known as
    A:-Nitriding
    B:-Cyaniding
    C:-Hardening
    D:-Annealing
    Correct Answer:- Option-B
Question60:-Temperature at which oil turn into steam and evaporate is called
    A:-Fire point
    B:-Viscosity
    C:-Pour point
    D:-Flash point
    Correct Answer:- Option-D
Question61:-Nut used in Hacksaw frame
    A:-Wing nut
    B:-Cap nut
    C:-Castle nut
    D:-Ring nut
    Correct Answer:- Option-A
Question62:-A uniform increase or decrease in diameter along the length of a cylinder is called
    A:-Step cut
     B:-Chamfer
    C:-Thread
    D:-Taper
    Correct Answer:- Option-D
Question63:-Teeth of similar shapes are cut parallel to shaft in
    A:-Bevel gear
    B:-Spur gear
    C:-Helical gear
    D:-Worm gear
    Correct Answer:- Option-B
Question64:-A natural abrasive is
    A:-Aluminium oxide
    B:-Silicon carbide
    C:-Emery
    D:-None of these
    Correct Answer:- Option-C
Question65:-Fixtures used for
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Correct Answer:- Option-B

	A:-Holding and locating workpiece
	B:-Control the machine
	C:-Guide the cutting tool
	D:-Holding the workpiece and guide the cutting tool
	Correct Answer:- Option-A
Que	estion66:-The distance from a point on one thread to the corresponding point on the next thread is
	A:-Lead
	B:-Start
	C:-Pitch
	D:-Crest
	Correct Answer:- Option-C
Que	estion67:-A tin base alloy containing 88% tin, 8% antimony and 4% copper is called
	A:-Gun metal
	B:-Y-alloy
	C:-Monel metal
	D:-Babbit metal
	Correct Answer:- Option-D
Que	estion68:-When rotating a nut over a bolt, if the nut advance axially when rotating the nut in an anticlockwise direction it indicate
	A:-Left hand thread
	B:-Right hand thread
	C:-Multi start thread
	D:-Error in thread
	Correct Answer:- Option-A
Que	estion69:-In order to change the properties and characteristics of metals either heated or cooled is known as
	A:-Carburising
	B:-Nitriding
	C:-Heat treatment
	D:-Cyaniding
	Correct Answer:- Option-C
Que	estion70:-While filing, the teeth of files are clogged by particles of metal is known as
	A:-Glazing
	B:-Pinning
	C:-Piercing
	D:-Spinning
	Correct Answer:- Option-B
Que	estion71:-In which foundation bolt, one side is straight and the other is in taper
	A:-Rag type foundation bolt
	B:-Lewis type foundation bolt
	C:-Eye type foundation bolt
	D:-Cotter foundation bolt
0	Correct Answer:- Option-B
Que	estion72:-The property of a metal by virtue of which they can be drawn into wires is known as
	A:-Toughness
	B:-Malleability
	C:-Brittleness D:-Ductility
	D:-Ductility Correct Answer:- Option-D
0	estion 73:-The act of joining the slip gauges together while building up to size is known
Que	A:-Wringing
	B:-Honing

C:-Setting	
D:-Lapping	
Correct Answer:- Option-A	
Question74:-The taper generally used on taper shank of drills and reamers is	
A:-Jamo taper	
B:-Brown and sharp taper	
C:-Morse taper	
D:-Metric taper	
Correct Answer:- Option-C	
Question75:-A neutral flame have	
A:-Excess of oxygen than acetylene	
B:-Equal volume of oxygen and acetylene	
C:-Excess of acetylene than oxygen	
D:-No oxygen	
Correct Answer:- Option-B	
Question76:-The process of finishing round holes by bonded abrasive stone is called	
A:-Lapping	
B:-Reaming	
C:-Boring	
D:-Honing	
Correct Answer:- Option-D	
Question77:-A Vernier metric micrometer shows the reading 6.214 mm. In this reading the number of Vernier scale coincides the control of the	ide with thimble division
A:-4	
B:-6	
C:-21	
D:-14	
Correct Answer:- Option-A	
Question78:-Gauge used to check the outside diameter of shaft	
A:-Plug gauge	
B:-Feeler gauge	
C:-Snap gauge	
D:-Depth gauge	
Correct Answer:- Option-C	
Question79:-To locate pulleys or gears on a shaft and prevent relative movement between them, we use	
A:-Nuts	
B:-Keys	
C:-Washers	
D:-Couplings	
Correct Answer:- Option-B	
Question80:-A hole is to be drilled in an M. S. plate with a drill of size 15 mm, R.P.M. is 700. Find the cutting speed.	
A:-23 meter/minute	
B:-30 meter/minute	
C:-15 meter/minute	
D:-33 meter/minute	
Correct Answer:- Option-D	
Question81:-The typical forward voltage of a yellow colour LED is	
A:-2.1 V	
B:-1.8 V	
C:-2.2 V	
D:-2.4 V	

Correct Answer:- Option-A
Question82:-The light of Mercury Vapour Lamp is
A:-Redish orange
B:-Greenish
C:-Redish blue
D:-White with bluish green
Correct Answer:- Option-D
Question83:-To get pink colour in Neon sign Lamp chemical powder coated in the inner side of the tube.
A:-Cadmium silicate
B:-Zinc silicate
C:-Cadmium borate
D:-Calcium silicate
Correct Answer:- Option-C
Question84:-Drop test of an armature is used for testing
A:-Number of turns
B:-Correct resistance
C:-Short and open circuits
D:-All of the above
Correct Answer:- Option-D
Question85:-Humming sound produced by a motor is due to
A:-Low voltage
B:-Shorted field or armature winding
C:-Dirty conductor
D:-Open field conductor
Correct Answer:- Option-B
Question86:-Current sensing single phasing preventers are suitable for
A:-Constant voltage application motor
B:-Constant load motors
C:-Variable voltage application motors
D:-All of the above
Correct Answer:- Option-B
Question87:-The Terminals of a GTO are
A:-Anode, Cathode, Gate
B:-Collector, Emitter, Gate
C:-Source, Drain, Gate
D:-Collector, Base, Emitter
Correct Answer:- Option-A
Question88:-In DC generator metal graphite brushes are used for
A:-High current and high voltage application
B:-Low current and low voltage application
C:-High current and low voltage application
D:-Low current and high voltage application
Correct Answer:- Option-C
Question89:-Which of the following is not a standard accuracy class of potential transformers?
A:-0.6
B:-0.1
C:-0.5
D:-1.0
Correct Answer:- Option-A

Question90:-In Electrician Solder the percentage of Tin and Lead is

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A:-60% Lead 40% Tin
    B:-40% Tin 60% Copper
    C:-60% Tin 40% Lead
    D:-40% Zinc 60% Tin
     Correct Answer:- Option-C
Question91:-The instrument used for measuring speed is
    A:-Tong Tester
     B:-Tachometer
    C:-Hydrometer
     D:-Growler
     Correct Answer:- Option-B
Question92:-The armature current in DC motor is maximum when
    A:-When motor has picked up maximum speed
    B:-The motor has intermediate stage
    C:-The motor has just switched off
    D:-The motor has just started moving
    Correct Answer:- Option-D
Question93:-A series RL circuits has a R = 30 \Omega and L = 40 \Omega the Z is
    Α:-70 Ω
    Β:-10 Ω
    C:-20 Ω
    D:-50 Ω
    Correct Answer:- Option-D
Question94:-The Magnetic field produced in the stater of a three phase induction motor is at
    A:-Slip speed
    B:-Synchronous speed
    C:-Asynchronous speed
    D:-Rotor speed
    Correct Answer:- Option-B
Question95:-The heat proof insulating material used for heater base is
    A:-Mica
     B:-Glass wool
    C:-Cotton
    D:-Porcelain
    Correct Answer:- Option-A
Question96:-A 4 Pole 1200 rpm alternator will generate emf at the frequency of
    A:-25 Hz
    B:-50 Hz
    C:-40 Hz
    D:-60 Hz
    Correct Answer:- Option-C
Question97:-Conductivity of copper is approximately
    A:-90%
    B:-98%
    C:-89%
    D:-85%
    Correct Answer:- Option-A
Question98:-Nichrome is an alloy of
    A:-Nickel and cobalt
     B:-Nickel and Carbon
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C:-Nickel and chromium D:-Nickel and copper Correct Answer:- Option-C Question99:-The unit of Magneto Motive Force (MMF) is A:-Weber B:-Henry C:-At/Wb D:-Ampere turns Correct Answer:- Option-D Question100:-The charging of a cell at high rate is called A:-Trickle charging

B:-Boost charging

C:-Potential charging

D:-Current charging

Correct Answer:- Option-B