

PROVISIONAL ANSWER KEY

Question 92/2025/OL

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Question1:-About a standard general purpose outside micrometer, which one of the following is wrong statement?

A:-Pitch of the spindle thread is 0.5 mm

B:-Ratchet stop is used for ensuring uniform pressure between measuring faces

C:-Thimble has 50 equal divisions

D:-Smallest measurement in the barrel scale is 1 mm

Correct Answer:- Option-D

Question2:-Least count of a English micrometer is

A:-0.01 inch

B:-0.01 mm

C:-0.001 inch

D:-0.001 mm

Correct Answer:- Option-C

Question3:-While checking the zero error of a micrometer, the thimble scale zero is in 3 division below the datum line. When reading with this micrometer, the reading get 23.33 mm. The actual reading is

A:-20.33 mm

B:-23.30 mm

C:-23.36 mm

D:-23.63 mm

Correct Answer:- Option-B

Question4:-In a vernier 1 main scale division is 1 mm and vernier scale have 20 divisions and it is equal to 19 main scale divisions. The least count of this vernier caliper is

A:-0.05 mm

B:-0.04 mm

C:-0.02 mm

D:-0.01 mm

Correct Answer:- Option-A

Question5:-While riveting, the tool used for support the head of the rivet which is already formed is

A:-Rivet set

B:-Dolly

C:-Rivet snap

D:-Drift

Correct Answer:- Option-B

Question6:-Cutting angle of flat cold chisel for chipping copper is

A:-35°

B:-45°

C:-60°

D:-70°

Correct Answer:- Option-B

Question7:-A file is specified by its

A:-Length and shape

B:-Cut and grade

C:-Length, cut and shape

D:-Length, cut, shape and grade

Correct Answer:- Option-D

Question8:-The drilling machine that can be able to drill a number of holes in a work piece simultaneously is

A:-Gang drilling machine

B:-Multiple spindle drilling machine

C:-Radial drilling machine

D:-Upright drilling machine

Correct Answer:- Option-B

Question9:-Name the headless screw used for prevent pulleys from slipping on a shaft

A:-Set screw

B:-Cap screw

C:-Machine screw

D:-Driver screw

Correct Answer:- Option-A

Question10:-Name the locking nut which has a slot cut half way across the nut and a screw is fitted with a clearance hole on top part and thread on lower part of the nut

A:-Slotted nut

B:-Simmonds nut

C:-Swan nut

D:-Grooved nut

Correct Answer:- Option-C

Question11:-The nucleus is the central part of the atom. It contains the protons and neutrons in _____ numbers

A:-Equal

B:-Different

C:- Positive

D:-Negative

Correct Answer:- Option-A

Question12:-The product of power (P) and time (t) is called as

A:-Power point

B:-Electrical Energy

C:-Voltage

D:-Electromotive force

Correct Answer:- Option-B

Question13:-Wire wound resistors are manufactured by using

A:-Carbon film

B:-Metal film

C:-Nichrome

D:-Carbon composition

Correct Answer:- Option-C

Question14:-The difference of voltage and pressure across two points in a circuit is called

A:-Ampere

B:-Resistance

C:-Potential difference

D:-Electric current

Correct Answer:- Option-C

Question15:-The property of a conductor which conducts the flow of current through it is called

A:-Coulomb

B:-International ampere

C:-Quantity of electricity

D:-Conductance

Correct Answer:- Option-D

Question16:-The product of true power and time is known as

- A:-Power factor
- B:-Energy
- C:-Reactive power
- D:-Apparent power

Correct Answer:- Option-B

Question17:-Single phase energy can be measured by

- A:-Powerfactor meter
- B:-Watt meter
- C:-Volt meter
- D:-Energy meter

Correct Answer:- Option-D

Question18:-Which type measuring instrument is no polarity marking on the terminals?

- A:-Moving iron
- B:-Moving coil
- C:-Electrodynamic quotient instrument
- D:-Moving coil instrument with rectifier

Correct Answer:- Option-A

Question19:-When the dynamometer instrument is to be converted as an ammeter to measure large currents, the moving coil is connected _____ both AC and DC

- A:-A uniform scale
- B:-Series a shunt
- C:-Small guage wire
- D:-Across a shunt

Correct Answer:- Option-D

Question20:-When an ohm meter must not be connected to a circuit?

- A:-The pointer is full right
- B:-The circuit's power is on
- C:-The pointer is full left
- D:-The circuit's power is off

Correct Answer:- Option-B

Question21:-Which of the following statement is/are correct about external combustion engines?

- i. The products of combustion of air and fuel transfer heat to a second fluid which is the working fluid of the cycle
- ii. Open cycle gas turbine is an external combustion engine.

A:-only i

B:-only ii

C:-all of the above (i & ii)

D:-both (i & ii) are not correct

Correct Answer:- Option-A

Question22:-Which of the following statement is/are correct about internal combustion engines?

- i. Lesser requirement of water for dissipation of energy through cooling system
- ii. Closed type gas turbine is an internal combustion engine
- iii. Internal combustion engines are not self-starting

A:-only (ii & iii)

B:-only (i & ii)

C:-All of the above (i, ii & iii)

D:-Only (i & iii)

Correct Answer:- Option-D

Question23:-Which of the following is not a criteria of classification of IC engines?

A:-Working cycle

B:-Firing order

C:-Valve or port design and location

D:-Method of cooling

Correct Answer:- Option-B

Question24:-Which of the following statement is/are correct about 2 stroke diesel engine?

- i. one power stroke is obtained in each revolution of crank shaft
- ii. 2 stroke diesel engines used in very large sizes for ship propulsion
- iii. In 2 stroke diesel engines there is no loss of fuel and no difficulty at idling.

A:-only i

B:-only ii

C:-only (i & ii)

D:-all of the above (i, ii & iii)

Correct Answer:- Option-D

Question25:-Which of the following statement is/are correct about 4 stroke diesel engine?

- i. 4 stroke diesel engines have high compression ratio
- ii. In 4 stroke diesel engine heat supplied at constant volume
- iii. In 4 stroke diesel engine compression ratio and expansion ratio are equal

A:-only i

B:-all of the above (i, ii & iii)

C:-only (i & ii)

D:-only ii

Correct Answer:- Option-A

Question26:-Which of the following statement is/are correct about 4 stroke engine?

- i. Turning movement is more uniform and hence lighter flywheel is used.
- ii. Thermal efficiency is lower
- iii. Volumetric efficiency is more

A:-Only i

B:-Only ii

C:-Only iii

D:-All of the above (i, ii & iii)

Correct Answer:- Option-C

Question27:-Which of the following is not true in CI engines?

A:-Works with dual combustion cycle

B:-Quantity governing

C:-Compression ratio range 13-22

D:-Weight per unit power is high

Correct Answer:- Option-B

Question28:-Which of the following is not true is SI engines?

A:-High cranking effort required

B:-Power per unit displacement is high

C:-Works with Otto cycle

D:-Super charging is limited due to detonation

Correct Answer:- Option-A

Question29:-Which of the following statement is/are correct?

- i. The ratio of the volume of the cylinder between the BDC and the cylinder head to the clearance volume is the compression ratio
- ii. The volume of the cylinder in between the TDC and the cylinder head is the total volume
- iii. The volume of the cylinder in between the two dead centres is the swept volume

A:-only (i & ii)

B:-only (ii & iii)

C:-only (i & iii)

D:-all of the above (i, ii and iii)

Correct Answer:- Option-C

Question30:-The cross-sectional area of one cylinder of an engine multiplied by its stroke is called

A:-Total volume

B:-Swept volume

C:-Engine capacity

D:-Clearence volume

Correct Answer:- Option-B

Question31:-Which of the following statement is/are correct about an IC engine?

- i. The exhaust valve usually starts opening before BDC.
- ii. Valve overlap occurs between exhaust and intake strokes

A:-only i

B:-only ii

C:-both (i & ii)

D:-none of the above

Correct Answer:- Option-C

Question32:-The ratio of energy in the indicated horse power to the fuel energy is known as

A:-Mechanical efficiency

B:-Volumetric efficiency

C:-Indicated thermal efficiency

D:-Relative efficiency

Correct Answer:- Option-C

Question33:-Which one of the following is not an advantage of unibody construction?

A:-Lightness and greater torsional rigidity

B:-Less body rattle and squeaks

C:-Improved vehicle performance and road holding

D:-None of these

Correct Answer:- Option-D

Question34:-In which type of chassis engine is mounted completely inside the driver's cabin?

A:-Full-forward control

B:-Semi-forward control

C:-Quarter-forward control

D:-Conventional control

Correct Answer:- Option-A

Question35:-Statement 1 : The compressor's intake filter removes particulate contaminants from incoming air before it is compressed into the tank.

Statement 2 : The oiler in the service unit removes residual oil from the compressed air to provide oil-free air for painting and tyre inflation.

Which one is correct?

A:-Both statements are correct

B:-Only statement 1 is correct

C:-Only statement 2 is correct

D:-Both are wrong

Correct Answer:- Option-B

Question36:-Which of the following pairs comprises only positive-displacement compressors?

A:-Roots blower and Vane blower

B:-Centrifugal and Axial-flow

C:-Axial-flow and Roots Blower

D:-Vane blower and Centrifugal

Correct Answer:- Option-A

Question37:-Technician A : When both Roots blower and Vane type air compressors operate, back pressure develops on their respective outlet ports

Technician B : The increase in pressure in Roots blower type air compressor is entirely due to back pressure.

Who is correct?

A:-Only Technician A is correct

B:-Only Technician B is correct

C:-Both are correct

D:-Both are wrong

Correct Answer:- Option-C

Question38:-Which is the correct statement on multistage air compressors compared to single stage ones?

Statement 1 : High volumetric efficiency can be achieved

Statement 2 : Smaller size flywheel can be used.

A:-Both statements are correct

B:-Both statements are wrong

C:-Only statement 1 is correct

D:-Only statement 2 is correct

Correct Answer:- Option-A

Question39:-Technician A : Actual volume of air delivered by the compressor when reduced to the normal temperature and pressure condition is called Free air delivery

Technician B : The capacity of an air compressor is generally given in terms of free air delivery

A:-Only Technician A is correct

B:-Both are correct

C:-Only Technician B is correct

D:-Both are wrong

Correct Answer:- Option-B

Question40:-Which is the correct statement on mean effective pressure?

Statement 1 : It can be calculated by dividing the work done by the compressor per cycle to the stroke volume.

Statement 2 : It is the ratio of discharge pressure to the inlet pressure.

A:-Both Statements are correct

B:-Only statement 1 is correct

C:-Both statements are wrong

D:-Only statement 2 is correct

Correct Answer:- Option-B

Question41:-A "differential" or "bias" regulator in an FRL assembly is specifically designed to

A:-Provide a sub-circuit at lower pressure than the main circuit

B:-Maintain a constant output pressure despite large inlet-to-outlet swings

C:-Sustain a fixed pressure difference between two points in the system

D:-Shut off flow completely when downstream demand drops to zero

Correct Answer:- Option-C

Question42:-When selecting a regulator for precise control of pressures below 15-20 psi, the most appropriate choice is a

A:-General-purpose regulator

B:-High-pressure regulator

C:-Low-pressure regulator

D:-Differential (bias) regulator

Correct Answer:- Option-C

Question43:-In a deliquescent dryer, which maintenance action is required periodically to ensure continued performance?

A:-Regenerating the desiccant bed with heated purge air

B:-Draining the liquid solution and replenishing the hygroscopic medium

C:-Backflushing the membrane module with sweep gas

D:-Cleaning and defrosting the refrigeration coils

Correct Answer:- Option-B

Question44:-What is the main difference between primer and sealer?

A:-Primer gives gloss, sealer gives colour

B:-Primer builds thickness, sealer improves adhesion and blocks stains

C:-Primer is for topcoat protection, sealer removes old paint

D:-Both are the same

Correct Answer:- Option-B

Question45:-Why must primers and sealers be compatible with the topcoat?

A:-To reduce the cost of repainting

B:-To increase the drying time

C:-to prevent peeling, cracking or poor adhesion

D:-To improve glossiness only

Correct Answer:- Option-C

Question46:-What is the main advantage of using polyurethane (PU) paint in automotive refinishing?

A:-Low gloss finish

B:-Quick drying

C:-Easy to clean with water

D:-Excellent gloss and UV resistance

Correct Answer:- Option-D

Question47:-What are the major components of liquid paint?

A:-Red oxide and solvent

B:-Pigment, solvent, binder and additives

C:-Resins and pigments

D:-None of these

Correct Answer:- Option-B

Question48:-Why is wet sanding preferred in some repainting processes?

A:-It reduces dust and gives a smoother finish

B:-It is cheaper than dry sanding

C:-It removes paint faster

D:-It requires no abrasive materials

Correct Answer:- Option-A

Question49:-Which of the following is a key characteristic of a good-quality body filler?

A:-Brittle texture

B:-Long curing time

C:-Easy sanding

D:-Low adhesion

Correct Answer:- Option-C

Question50:-What is the main difference between body filler and glazing putty?

A:-Body filler is used for painting plastic parts, while glazing putty is only for metal

B:-Glazing putty is used for deep dents, while body filler is for scratches

C:-Body filler contains more solvent than glazing putty

D:-Glazing putty is used for minor surface imperfections, while body filler is used for filling deeper dents and shaping

Correct Answer:- Option-D

Question51:-What is the main base resin used in most automotive body fillers?

A:-Epoxy resin

B:-Polyester resin

C:-Polyurethane

D:-Acrylic resin

Correct Answer:- Option-B

Question52:-Why must body filler be applied on a clean, sanded metal surface?

A:-To help the paint dry faster

B:-To prevent the metal from changing colour

C:-To ensure proper adhesion and prevent filler failure

D:-To make the surface shiny and smooth

Correct Answer:- Option-C

Question53:-What type of mask should be worn when spraying paint in a closed area?

A:-Cloth mask

B:-Dust mask

C:-Surgical mask

D:-Respirator with chemical filters

Correct Answer:- Option-D

Question54:-What should be done immediately after a small paint spill in the shop?

A:-Cover it with cloth

B:-Mop it with water

C:-Absorb with inert material and ventilate the area

D:-Ignore if no one steps on it

Correct Answer:- Option-C

Question55:-Which standard unit is used to measure the rate of corrosion of metals?

A:-Millimetres per year (mmpy)

B:-Metal density g/cm^3

C:-Volume concentration (VC)

D:-None of these

Correct Answer:- Option-A

Question56:-Which of the following factors does not cause corrosion?

A:-Physical

B:-Electro Chemical

C:-Microbiological

D:-None of these

Correct Answer:- Option-D

Question57:-Which of the following is not considered an anti-corrosion method?

A:-Galvanization

B:-Epoxy coating

C:-Sanding the surface

D:-Anodizing

Correct Answer:- Option-C

Question58:-Car requires repainting on 2 doors and the rear bumper. The cost per panel is Rs. 1,500 and the workshop adds a 10% overhead on the total?

What is the total repainting cost including overhead?

A:-Rs. 4,950

B:-Rs. 5,000

C:-Rs. 4,500

D:-Rs. 5,250

Correct Answer:- Option-A

Question59:-A job required 2 coats of paint. Each coat requires 0.8 litres per sq. meter. If the surface area is 3 sq. meters, how much paint is needed in total?

A:-2.4 litres

B:-4.8 litres

C:-3.6 litres

D:-1.6 litres

Correct Answer:- Option-B

Question60:-What is the main advantage of using HVLP spray guns in autobody repainting?

A:-Requires no air compressor

B:-Uses more paint for better coverage

C:-Reduces overspray and saves paint

D:-Applied thicker coats faster

Correct Answer:- Option-C

Question61:-What is the purpose of the fluid needle in a spray gun?

A:-To mix air and paint

B:-To open and close the fluid (paint) passage

C:-To regulate air pressure

D:-To control fan pattern

Correct Answer:- Option-B

Question62:-Which spray gun is best suited for applying thick coatings like primers?

A:-HVLP gun

B:-LVLP gun

C:-Suction feed spray gun

D:-Pressure feed spray gun

Correct Answer:- Option-D

Question63:-What happens if the spray gun nozzle is clogged?

A:-The spray pattern becomes smoother

B:-Paint flow increases

C:-The spray becomes uneven or starts to sputter

D:-The gun automatically cleans itself

Correct Answer:- Option-C

Question64:-Which type of spray gun is designed to create a vacuum and draw the material from the container?

A:-Pressure feed spray gun

B:-Gravity feed spray gun

C:-Suction feed spray gun

D:-Airless spray gun

Correct Answer:- Option-A

Question65:-What does a spray gun produce during operation?

A:-Only pressure and heat

B:-Atomization and vaporization

C:-Condensation and filtration

D:-Compression and ignition

Correct Answer:- Option-B

Question66:-Which of the following are the three main types of spray guns?

A:-Airless, centrifugal, hydraulic

B:-Electric, pneumatic, mechanical

C:-Manual, automatic, robotic

D:-Suction feed, gravity feed, pressure feed

Correct Answer:- Option-D

Question67:-What is the primary advantage of an airless paint sprayer?

A:-Only works with water-based paints

B:-Uses compressed air to atomize paint

C:-Provides a finer finish than brushes

D:-Delivers paint at high pressure without compressed air

Correct Answer:- Option-D

Question68:-Why is electrostatic painting *not* suitable for non-conductive surfaces

like plastic or wood?

A:-The paint dries too quickly

B:-The surface cannot hold an electrical charge to attract paint

C:-It requires high-pressure air

D:-The gun clogs easily

Correct Answer:- Option-B

Question69:-What type of filter is commonly used in spray booths for capturing overspray?

A:-HEPA filters

B:-Carbon filters

C:-Dry particulate filters

D:-UV filters

Correct Answer:- Option-C

Question70:-Which booth type is typically used for painting large aircraft?

A:-Cross draft booth

B:-Semi-downdraft booth

C:-Open-face booth

D:-Portable booth

Correct Answer:- Option-B

Question71:-The base coat in a spray-painting process is responsible for

A:-Providing corrosion protection and adhesion to metal surfaces

B:-Giving colour and visual effects

C:-Adding UV resistance and long-term gloss

D:-Building film thickness to level sanding scratches

Correct Answer:- Option-B

Question72:-What is the purpose of wet sanding during refinishing?

A:-To remove rust

B:-To reduce dust and smooth the surface

C:-To dry the surface

D:-To apply paint faster

Correct Answer:- Option-B

Question73:-In refinishing, which spray gun is commonly used for base coat application?

A:-Airless spray gun

B:-Electrostatic gun

C:-HVLP spray gun

D:-Roller gun

Correct Answer:- Option-B

Question74:-What is one advantage of using single stage paint over base coat/clear coat systems?

A:-Longer drying time

B:-Requires more paint material

C:-Faster application and fewer steps

D:-Cannot be polished

Correct Answer:- Option-C

Question75:-Which of the following acids is commonly used in the pickling process?

A:-Acetic acid

B:-Hydrochloric acid

C:-Boric acid

D:-Citric acid

Correct Answer:- Option-B

Question76:-Which of the following statements about Orbital Wire Brushing are correct?

- i. it is a mechanical power sanding system
- ii. it is used to remove rust, mill scale paint, and foreign matter
- iii. it is done manually without machines

A:-only i and ii

B:-only ii and iii

C:-only i and iii

D:-all of the above

Correct Answer:- Option-A

Question77:-Which of the following statements are correct about the phosphating process?

- i. Phosphating improves corrosion resistance of metals.
- ii. It enhances paint adhesion on the metal surface
- iii. It is only used for cleaning aluminum surfaces

A:-only ii and iii

B:-only i and ii

C:-all of the above i, ii and iii

D:-only i and iii

Correct Answer:- Option-B

Question78:-Which of the following statements are correct about scrapers used in metal surface preparation?

- i. Scrapers are used to remove old paint, glue or adhesives from the metal surface

- ii. Scrapers are used for applying putty.
- iii. Scrapers and sharp blades help in removing layered materials from surfaces

A:-only i and ii

B:-only i and iii

C:-only ii and iii

D:-all of the above

Correct Answer:- Option-B

Question79:-What does a higher grit number indicate?

A:-Coarser abrasive

B:-Smoother finish

C:-Larger abrasive particles

D:-Lower quality sandpaper

Correct Answer:- Option-B

Question80:-Consider the following about grit size in sandpaper :

- i. Grit size refers to the size of abrasive particles
- ii. It is measured by the number of abrasive grains per square inch
- iii. Finer grit means coarser sanding

A:-only i and ii

B:-only ii and iii

C:-only i

D:-all of the above

Correct Answer:- Option-A

Question81:-What is one key feature of dry sanding?

A:-Uses water as lubricant

B:-Uses foam instead of sand paper

C:-No liquid is required for lubrication

D:-It only works on wood

Correct Answer:- Option-C

Question82:-Which of the following statements about wet sanding is correct?

A:-Water is used to increase sanding speed

B:-Water adds color to the sanded surface

C:-Water acts as a lubricant between the metal surface and sanding material

D:-Water is mainly used to remove old paint

Correct Answer:- Option-C

Question83:-What should be done after applying masking paper and spraying liquid mask?

A:-Apply paint immediately

B:-Fold masking paper back and wipe area

C:-Heat the surface

D:-Peel off the mask

Correct Answer:- Option-B

Question84:-What should be done before any operation on a metal surface?

A:-Directly apply paint

B:-Heat the surface

C:-Ensure the surface is cleaned with compressed air and degreaser

D:-Apply oil to the surface

Correct Answer:- Option-C

Question85:-Colour is a property of

A:-Sound

B:-Temperature

C:-Light

D:-Shape

Correct Answer:- Option-C

Question86:-Which three colours are known as Primary Colours?

A:-Green, Orange, Violet

B:-Red, Green, Blue

C:-Red, Yellow, Blue

D:-Cyan, Magenta, Yellow

Correct Answer:- Option-C

Question87:-Which of the following is a secondary colour?

A:-Blue

B:-Red

C:-Yellow

D:-Green

Correct Answer:- Option-D

Question88:-What does 'Value' refer to in colour theory?

A:-The cost of the paint

B:-The colour's name

C:-The lightness or darkness of a colour

D:-The thickness of the pigment

Correct Answer:- Option-C

Question89:-The term "Saturation" in colour theory refers to

A:-The brightness of a light source

B:-The lightness or darkness of a colour

C:-The purity or intensity of a colour

D:-The thickness of paint

Correct Answer:- Option-C

Question90:-What is a "Tint"?

A:-A colour mixed with black

B:-A colour mixed with grey

C:-A colour mixed with white

D:-A dull version of a colour

Correct Answer:- Option-C

Question91:-What is the main cause of "orange peel" in automotive painting?

A:-Excessive humidity during drying

B:-Incomplete curing of primer

C:-Improper spray gun adjustment or paint viscosity

D:-Use of coarse sandpaper

Correct Answer:- Option-C

Question92:-"Runs" or "Curtains" in paint occur when :

A:-The surface is too hot

B:-Too much paint is applied in one area

C:-The spray pressure is too high

D:-The paint is too thick

Correct Answer:- Option-B

Question93:-What is the visual appearance of the defect called "sagging"?

A:-Dry and chalky finish

B:-Wavy or dripped-down paint surface

C:-Surface with air bubbles

D:-Cracks and blisters

Correct Answer:- Option-B

Question94:-Which of the following causes sand scratch swelling?

A:-Excessive topcoat thickness

B:-Use of coarse sandpaper without proper sealing

C:-Spraying at high humidity

D:-Poor air circulation

Correct Answer:- Option-B

Question95:-What preventive measure helps avoid orange peel?

A:-Applying paint with a roller

B:-Using a fast hardener

C:-Correct spray gun setup and thinning ratio

D:-Applying fewer coats

Correct Answer:- Option-C

Question96:-Runs and sags in paint usually occur due to

A:-Undercoating not dried

B:-Thin application of paint

C:-Low humidity conditions

D:-Excessive film thickness and poor application technique

Correct Answer:- Option-D

Question97:-Which one of the following tools is commonly used to detect sagging immediately after spraying?

A:-Viscometer

B:-Surface guage

C:-Inspection lamp/light

D:-Paint stirrer

Correct Answer:- Option-C

Question98:-Sand scratch swelling appears when

A:-Basecoat is over-cured

B:-The topcoat shrinks into the sanded areas below

C:-There is too much pigment in the paint

D:-The thinner used is too fast

Correct Answer:- Option-B

Question99:-What is the primary purpose of a rubbing compound?

A:-To remove wax

B:-To apply a basecoat

C:-To remove surface imperfections and scratches

D:-To seal the surface

Correct Answer:- Option-C

Question100:-Buffing is performed after rubbing compound to

A:-Apply a primer coat

B:-Create a glossy and smooth finish

C:-Remove all paint layers

D:-Apply masking

Correct Answer:- Option-B