

137/2024

Maximum : 100 marks

Time : 1 hour and 30 Minutes

1. GSM is related to which one of these?
(A) Pencil (B) Paper
(C) Pigment (D) Eraser
2. "Hot-pressed" paper is :
(A) Smooth (B) Rough
(C) Textured (D) Lined
3. What colour do you get by adding blue and red?
(A) Orange (B) Violet
(C) Brown (D) Ash
4. Which statement is false about 'Gouache' colour?
(A) Water-based paint (B) Higher pigment concentration
(C) Oil based (D) Matte finish
5. Complimentary colours are :
(A) Colours next to each other on the colour wheel
(B) Different shades of the same colour
(C) Colours directly opposite each other on the colour wheel
(D) Three colours evenly spaced on the colour wheel
6. A monochromatic colour scheme is:
(A) A combination of colours that are next to each other on the colour wheel
(B) A set of colours that are opposite each other on the colour wheel
(C) Variations of a single colour, including its shades, tints and tones
(D) A combination of three evenly spaced colours on the colour wheel
7. A "Point brush" is used for :
(A) Creating broad, sweeping strokes
(B) Adding fine, detailed lines and precision work
(C) Blending large areas of colour
(D) Applying thick layers of paint

8. “Willow Charcoal” is primarily used for :
- (A) Creating bold, dark lines and deep shading
 - (B) Producing soft, light lines and smooth shading
 - (C) Painting detailed colour work
 - (D) Applying thick layers of paint
9. Acrylic colour is :
- (A) A water based paint that dries slowly
 - (B) An oil-based paint with a glossy finish
 - (C) A fast-drying paint made from pigments suspended in acrylic polymer
 - (D) A pigment used for water colour painting
10. What do the ‘H’ and ‘B’ marking on a pencil indicate?
- (A) The colour of the pencil
 - (B) The type of wood used in the pencil
 - (C) The hardness and blackness of the pencil lead
 - (D) The length and diameter of the pencil
11. What is a spray gun used for?
- (A) Even and smooth application of colour over large areas
 - (B) Minute, detailed use of colour
 - (C) Used in oil painting
 - (D) To mix different colours, create a wide range of hues and shades
12. Which one is used to clean the palette?
- (A) Flat brush
 - (B) Palette scraper
 - (C) Erassor
 - (D) Compressed charcoal
13. A “Fan brush” is used for :
- (A) Detailing fine lines
 - (B) Bold strokes
 - (C) Blending and softening edges
 - (D) Filling a large area
14. A “Mop brush” is used for :
- (A) Fine detailing
 - (B) Creating precise lines
 - (C) Covering large areas with washes
 - (D) Blending and softening edges

15. How do you clean a brush used to paint with oil colours?
(A) With soap and water
(B) With turpentine or mineral spirits
(C) With rubbing alcohol
(D) With vinegar
16. Which one is not a drawing tool?
(A) Charcoal (B) Pastel
(C) Ink pen (D) Chisel
17. Compressed charcoal is used for :
(A) Creating fine, detailed lines
(B) Producing bold, dark lines and shades
(C) Adding colour to artworks
(D) Applying texture to oil paints
18. Water colour pencils give :
(A) A glossy finish similar to oil paints
(B) A smooth, opaque colour that cannot be blended
(C) A colour spread effect when activated with water
(D) A textured surface similar to pastels
19. How is oil-pastels made?
(A) By mixing pigments with a water-based binder
(B) By mixing pigments with a non-drying oil and wax binder
(C) By grinding pigments into a fine powder and mixing with acrylic polymer
(D) By combining pigments with a solvent and a polymer medium
20. How is an acrylic brush cleaned?
(A) With turpentine or mineral spirits (B) With soap and water
(C) With rubbing alcohol (D) With vinegar
21. To remove old paint from a thick MS plate, the best method is :
(A) Water blasting (B) Emery sheet
(C) Paddle (D) Both (A) and (B)
22. Water emery is used :
(A) To remove rust (B) To rub putty (flatting)
(C) To rub wooden surface (D) To clean metal surface

23. Flame cleaning is used to remove :
- (A) Rust (B) Mud, Sand
(C) Grease, Oil (D) Old paint
24. Acid cleaning is also known as :
- (A) Acid pickling (B) Wiping
(C) Degreasing (D) Both (B) and (C)
25. Cold phosphating is done :
- (A) Below room temperature (B) Above room temperature
(C) In very cold atmosphere (D) At 10°C
26. How should loose paint be efficiently removed from wood?
- (A) Apply paint remover (B) Pressure washer
(C) Use a blow torch and a putty knife (D) Scrap in the direct of grain
27. Metal surface should be thoroughly clean prior to coating because:
- (A) Less paint is required (B) Paint sticks to surface better
(C) Coatings applies easier (D) Colour is better
28. Which Abrasive is preferred to use on stainless steel?
- (A) Copper slag (B) Steel Grit
(C) Steel shot (D) Aluminium oxide
29. Paint should provide resistance to:
- (A) Corrosion (B) Sound
(C) Heat (D) Warping
30. Process of corrosion enhanced by :
- (A) Air and Moisture (B) Electrolytes in water
(C) Metallic impurities (D) All of these
31. The Distempers are preferred because of their property :
- (A) Cheaper (B) Neat appearance
(C) Smooth surface (D) All of these

32. Why does acrylic latex is the most flexible paint?
 (A) Can be mixed to any kind of thinner
 (B) Used in wood concrete and steel
 (C) Interior and exterior surface and odorless
 (D) Fast drying
33. Oil based enamels fully dry in
 (A) 4 – 8 Hrs (B) 4 – 16 Hrs
 (C) 8 – 16 Hrs (D) 8 – 24 Hrs
34. Why is the glossy paint not use as a primer due to?
 (A) It will cover more paint to use
 (B) It will cover less paint to use
 (C) Improper adhesion property
 (D) It will become flat
35. _____ is preferred for painting car body parts.
 (A) Melamine (B) PU paints
 (C) Acrylic (D) All of these
36. A good varnish has the property of :
 (A) Fast drying (B) Uniform coating finish
 (C) Hard film (D) All of these
37. Spirit varnish consist of :
 (A) Spirit and Wax (B) Spirit and Shellac
 (C) Turpentine and Wax (D) Turpentine and Shellac
38. Pigments are _____ compounds.
 (A) Organic (B) Inorganic
 (C) Both (A) and (B) (D) None
39. Constituents of paint are
 (A) Pigments (B) Thinner
 (C) Binder (D) All of these
40. _____ binds pigment particles in to a film and adhere to the substrate.
 (A) Solvent (B) Additives
 (C) Baklite (D) Binders (Film former)

41. The appearance of glossy patches on the painted surface is called :
- (A) Blooming (B) Running
(C) Blistering (D) Flashing
42. Which defect occurs the formation of White powdering deposit?
- (A) Peeling (B) Efflorescence
(C) Cracking (D) None of these
43. In powder coating system of painting the particle size of coating material in the range between :
- (A) 10 to 20 μ m (B) 20 to 30 μ m
(C) 30 to 50 μ m (D) 50 to 100 μ m
44. What is the name of paper cutting design printing process on a wall surface?
- (A) Relief texture (B) Stencil texture
(C) Mural texture (D) Wall texture
45. Which defects occurs if paint is applied excessively thick?
- (A) Grinning (B) Running
(C) Flaking (D) Wrinkling
46. In Electrostatic Spray Painting the Paint Materials can be :
- (A) Powdered form (B) Liquid form
(C) Both (A) and (B) (D) None of these
47. Which part of brush transfer paint in to the surface?
- (A) Bristle (B) Ferrule
(C) Handle (D) Hair
48. Which defect occurs only on spray painting?
- (A) Cracking (B) Orange peel
(C) Yellowing (D) Fading
49. Which defect is to unequal expansion or contraction of paint film?
- (A) Chalking (B) Cracking
(C) Erosion (D) None of these

50. Formation of bubbles under the paint film caused the defect is
- (A) Blooming (B) Fading
(C) Blistering (D) Flaking
51. Which painting method is used for an uneven damped surface?
- (A) Roller Painting (B) Powder coating
(C) Brush painting (D) All of these
52. Which type of air compressor is used for spray painting?
- (A) Velocity type (B) Flow type
(C) Reciprocating type (D) Dynamic type
53. The powder coating mainly used in
- (A) Household appliances (B) Automobiles
(C) Bicycles (D) All of these
54. Which defect occurs when ultra violet rays affect the paint binder to disintegrate?
- (A) Cracking (B) Chipping
(C) Chalking (D) Fading
55. The width of an airless spray pattern is determined by which of the following
- (A) Spray tip orifice angle (B) Size of the pump
(C) Spray tip orifice size (D) Material pressure
56. What is the pressure control closed environment, originally used to paint vehicles in workshop?
- (A) Spray Shop (B) Spray Hall
(C) Spray Booth (D) Spray Chamber
57. A very common paint defect caused by moisture and poor surface preparation :
- (A) Wrinkling (B) Peeling
(C) Sagging (D) Chalking
58. If the painted surface is too smooth ————— defect occurs
- (A) Running (B) Sagging
(C) Grinning (D) Wrinkling

59. Which transparent coating is used to protect wood and ply from termites
- (A) Paint (B) Powder
(C) Varnish (D) Primer
60. Saponification is a defect on the painted surface and it is identified by the appearance of
- (A) Wrinkles (B) Dull patches
(C) Bubbles (D) Soapy patches
61. This testing method is used to determine the effective dispersion and checking the particle size of the paint pigment. Which is name of this testing method?
- (A) Flexibility testing (B) Adhesion testing
(C) Finesse of grind (D) Abrasion Resistance
62. The properties are defined by the resistance of the coating fluid to flow and the resistance to flow is known as
- (A) Finesse of grind (B) Viscosity
(C) Wet film thickness (D) Abrasion Resistance
63. What is the use of Weight per Gallon cup?
- (A) Determine the Adhesion
(B) Determine the Finesse of grind
(C) Determine the Viscosity
(D) Determine the specific gravity (density)
64. What is the use of IC gauge?
- (A) Testing the Wet film thickness (B) Testing the Dry film thickness
(C) Testing the Flexibility (D) Testing the Adhesion
65. Gauge is designed to measure the thickness of non-conductive coating on non-ferrous substance. Which gauge is this?
- (A) Falling Abrasive (B) Finesse of grind
(C) Drying time recorder (D) Eddy-current thickness
66. Both Conical and Cylindrical Mandrels are used for testing the _____ of the coatings.
- (A) Flexibility testing (B) Drying time testing
(C) Glossiness testing (D) Abrasion resistance

67. Ford, Zahn, Shell Pratt and Lambert are the many versions of cup. What is the use of the these cup?
- (A) Check the Adhesion
 (B) Check the Finesse of grind
 (C) Check and Viscosity
 (D) Check the specific gravity (density)
68. _____ is measure the adhesion bond strength of applied coatings with ease and precision.
- (A) Gloss test (B) Pull off test
 (C) Finesse of grind test (D) Flexibility test
69. It is a multi-blade tool which enable and assessment to be adhesion resistance of coating. Which tool is this
- (A) IC gauge (B) Rolling spring
 (C) Broad brush (D) Cross hatch cutter
70. Which tool is used to measure the gloss value of the paint film?
- (A) Gloss meter (B) IC gauge
 (C) Viscometer (D) Cross hatch cutter
71. Which colour and shape are used in Mandatory signs?
- (A) White symbol on blue background in oblong shape
 (B) Black symbol on white background in circular shape
 (C) White symbol on blue background in circular shape
 (D) Blue symbol on white background in circular shape
72. What is the name of this basic safety sign?



- (A) Prohibition sign (B) Warning sign
 (C) Mandatory sign (D) Information sign
73. What personal protective equipment protects the eyes from flying dust particles?
- (A) Surgical mask (B) Mask with respirator
 (C) Helmet (D) Goggles

74. Which PPE protect the body from hot particles?
- (A) Leather Gloves (B) Face shield
(C) Leather apron (D) Head shield
75. Which method is suitable to extinguish fire from liquefiable solid and flammable liquids?
- (A) Smothering (B) Starving
(C) Cooling (D) Both (A) and (B)
76. Which type of fire extinguishers use on the fire on metals and electrical equipment's involved?
- (A) Water filled extinguishers (B) Foam extinguishers
(C) Fire bucket with water (D) Dry powder extinguishers
77. Fire caused by Liquefied gas are considered as which class fire?
- (A) Class A (B) Class C
(C) Class D (D) Class B
78. Which is the ground colour and first colour band is used for the pipe line contain compressed air over 15 kg/cm?
- (A) Ground colour Sky blue and first colour band Signal red
(B) Ground colour Sky blue and first colour band Silver grey
(C) Ground colour Sky blue and first colour band French blue
(D) Ground colour Sky blue and first colour band Yellow
79. Which colour is used for the pipe line contain Hydrocarbons?
- (A) Dark Violet (B) Dark Blue
(C) Dark admiralty grey (D) Smoke grey
80. Which is the ground colour and first colour band is used for the pipe line contain Ammonia?
- (A) Ground colour Canary yellow and first colour band Gulf red
(B) Ground colour Canary yellow and first colour band Dark violet
(C) Ground colour Light brown and first colour band French blue
(D) Ground colour Light brown and first colour band Light orange
81. PNG stands for :
- (A) Printable Network Graphics (B) Portable New Graphics
(C) Portable Network Graphics (D) Printed Network Graphics

82. In Photoshop, the tool which is used to select areas by freehand is :
- (A) Wand Tool (B) Paint Brush Tool
(C) Shape Tool (D) Lasso Tool
83. _____ is a way to soften the hard edges of an object in your image in Photoshop.
- (A) Sample Size (B) Feathering
(C) Flow (D) Opacity
84. In Photoshop, _____ tool is used to make portions of image lighter.
- (A) Dodge Tool (B) Burn Tool
(C) Lasso Tool (D) Gradient Tool
85. The tool used to draw curves in the form of a single line per point in CorelDraw is :
- (A) Knife (B) Crop
(C) Bezier (D) Pen
86. CMYK stands for :
- (A) Cream Maroon Yellow Key (B) Cream Magenta Yellow Kyrin
(C) Cyan Magenta Yellow Kyrin (D) Cyan Magenta Yellow Key
87. In CorelDraw, _____ is used to apply network lines on an object.
- (A) Mesh Fill (B) Post Script Fill
(C) Pattern Fill (D) Texture Fill
88. The short cut which is used to close a window is :
- (A) Ctrl + C (B) Ctrl + W
(C) Ctrl + L (D) Ctrl + X
89. The measurement of A3 sized paper is :
- (A) 148.5 × 210 mm (B) 297 × 210 mm
(C) 594 × 420 mm (D) 297 × 420 mm
90. The images created using a sequence of commands or mathematical statements are :
- (A) Raster images (B) Bitmap images
(C) Vector images (D) jpg images
91. Which is known as the sheet metal workers Anvilbending, seaming or forming?
- (A) Scratch awl (B) Timper
(C) Stakes (D) Dolly

92. Which of the following file is using for filing wood?
- (A) Riffle File (B) Rasp Cut File
(C) Barrette File (D) Crossing File
93. Which statement below about Lead is appropriate?
- (A) It is coated with Zink (B) It is light in weight
(C) It is a ferrous metal (D) Very soft and heavy in weight
94. _____ is used to connect two pipes and have internal threads at both ends to fit the external threads on pipes.
- (A) Coupling (B) Plug
(C) Elbow (D) Hemp Packing
95. Which tool is used for closing down the edges of the plates and heads of the rivets to form a metal to metal joint?
- (A) Pittsburgh Seam (B) Caulking tool
(C) Drift (D) Creasing Iron
96. Which one of the following is an Organic flux?
- (A) Sal-Ammonia (B) Zinc chloride
(C) Tallow (D) Phosphoric Acid
97. Rigid tubing in hydraulic assembly is done using _____ material.
- (A) PVC Tubes (B) Rubber Tubes
(C) Nylon Tubes (D) Metallic Tubes
98. Which cementation process is coating with Aluminium?
- (A) Calorising (B) Sherardising
(C) Chromising (D) None of these
99. In Sheet metal work by using which formula we can find the Wiring allowance?
- (A) $D + t/2.5$ (B) $2.5 \times d + t$
(C) $2.5 \times d - t$ (D) $2W + 2T$
100. Name the joint made by fastening two edges of sheet metal together?
- (A) Notch (B) Hem
(C) Seam (D) Groove

SPACE FOR ROUGH WORK

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