

PART III

19 — PRINTING TECHNOLOGY

(Answer ALL questions)

41. The arrangement of the visual elements is
- Composition
 - Unity
 - Harmony
 - Contrast
42. Which of the following in the screening technology that gives accurate screen angles but takes lot of computational time?
- Rational tangent Screening
 - Irrational Screening
 - FM Screening
 - Supercell Screening
43. Postscript font uses _____ to describe the characters
- Bitmap
 - Pixel data
 - Vector equations
 - Integral equations
44. Which of the following is not an advantage of FM screening?
- Higher resolution
 - Higher tonal range
 - Higher color gamut
 - Higher dot gain
45. The shifting of hue associated with inkjet printers as the chroma increases.
- Grey balance
 - Ink splitting
 - Ink hooking
 - Gray error
46. 10 points = _____ mm
- 4.2 mm
 - 6.4 mm
 - 12 mm
 - 3.5 mm
47. Which test element is not present in digital plate wedge?
- Line patches
 - Resolution patches
 - Checkerboard patches
 - Overprint patches
48. The dot shape suitable for newspaper printing is
- Round
 - Ellipse
 - Chain
 - Brick
49. The exposure given to cure both imaging and non imaging areas of a flexo plate to make it tack free
- Back exposure
 - Face exposure
 - Post exposure
 - Light finishing
50. In a servicing work, in which a technician can receive, via semi-transparent goggles, inserted information that corresponds with his view of the real thing, namely the machine to be serviced is an example of _____ technology.
- Teleportation
 - Future vision
 - Augmented Reality
 - Virtual Reality

51. Which one of the following is an ISO-standardized version of the Portable Document Format (PDF) specialized for use in the archiving and long-term preservation of electronic documents?
- PDF/D
 - PDF/T
 - PDF/X
 - PDF/A
52. Which of the following is not true under Packing and Labeling of food products?
- The label should contain the name, trade name and description of food contained in the package.
 - The name of ingredients used in the product should be listed in ascending order of their composition by weight or volume.
 - For vegetarian food, a green colour circle and square should be indicated.
 - The complete address of the manufacturer or packer should be declared.
53. In Gravure printing unit, transfer of ink is affected by
- Wetting properties of the printing substrate,
 - Viscosity of the ink,
 - Printing pressure
- Only (i) and (ii)
 - Only (i) and (iii)
 - Only (ii) and (iii)
 - All the above (i), (ii) and (iii)
54. The indirect letterpress printing is known as
- Letterset
 - Letteroffset
 - Letterprint
 - Direct letter
55. The computer feeds two signals to the engraving head, the actual image signal and the screen signal defining the _____ and _____
- Screen resolution and the angular position
 - Screen size and the linear position
 - Screen resolution and the circumferential position
 - Screen size and the curvilinear position
56. Which of the following is not the major advantage of Collotype Continuous tones that can be reproduced without screening?
- Moire free
 - High quality
 - No screen
 - Dotgain
57. Which of the following represents the number of single threads in the weave per linear centimeter?
- Mesh grading
 - Mesh opening
 - Mesh Count
 - Fabric thickness
58. In electrophotography printing, duplex printing means
- Printing double image in aside
 - Printing on both side
 - Printing Gang images
 - Printing duplex boards
59. In measuring ink trapping values of overprint patches and solid color patches, all ink densities must be measured using the
- Filter for the first color
 - Filter for the second color
 - Filter for the overprint color
 - Any filter is suitable.

60. Which is not the Spectrometer principles for measuring spectral reflectance factors?
- Flywheel diffraction principle;
 - Monochromator principle;
 - Filter wheel principle;
 - Diffraction grating principle.
61. Which of the following uses a periodic flash of light that is synchronized with the press speed, making it seem to the observer as if the web were standing still?
- Optical system
 - Stroboscope
 - Rotating mirror
 - Video camera
62. Which of the following inking unit is the “shortest” inking unit?
- Gravure
 - Flexo
 - Offset
 - All of the above
63. Match the correct pressure for the respective process
- | | |
|---------------------------|-----------------|
| (1) letterpress printing | (i) 0.1–0.5 MPa |
| (2) flexographic printing | (ii) 1.5–5 MPa |
| (3) offset printing | (iii) 0.8–2 MPa |
| (4) gravure printing | (iv) 5–15 MPa |
- (1)-(i); (2)-(ii); (3)-(iii); (4)-(iv)
 - (1)-(iv); (2)-(i); (3)-(iii); (4)-(ii)
 - (1)-(iv); (2)-(iii); (3)-(ii); (4)-(i)
 - (1)-(ii); (2)-(iv); (3)-(iii); (4)-(i)
64. The inline perfect printing, for work-and-turn needs gripper margins at
- Both lead and left edge
 - Both lead and trail edge
 - Both lead and right edge
 - Only one edge
65. The placing of a section within another section is known as
- Insetting
 - Inserting
 - Collating
 - Gathering
66. Buffer storage in mailroom system is used for
- Storing the unprinted sheets
 - Storing the printed sheets
 - Storing the materials used in printing
 - Storing the rejected newspapers
67. Hot melt adhesive is a
- Vegetable adhesive
 - Animal adhesive
 - Synthetic adhesive
 - Volatile adhesive
68. Which of the following improves the book structure by giving it a convex spine and a concave fore edge?
- Cutting
 - Rounding
 - Folding
 - Adhesive binding

69. A series of small holes very close to each other is made so that a position of the sheet of paper may be readily torn away and this operation is called
- Punching
 - Perforating
 - Drilling
 - Creasing
70. A small metal unit used to prevent a hole in paper or board from tearing out under stress is called
- Eyelets
 - Rivets
 - Cords
 - Press fasteners
71. Which of the following covers is a cover made from paper or paper fiber material with greater substance than that used for the body of the book?
- Hard cover
 - Soft cover
 - Self cover
 - Case bound cover
72. Which of the following is the type of machine used to fold thin papers?
- Knife folding machine
 - Buckle folding machine
 - Lump folding machine
 - Former folding machine
73. Which of the following is the coating technique in which the varnish is applied to only selected portion?
- Overprint varnish
 - Spot varnish
 - Foil stamping
 - Blanking
74. Tipping-in represents
- Fixing one section within another
 - Placing loose piece of paper inside a section
 - Affixing a single leaf inside a section
 - Placing loose piece of paper outside a section
75. Thin layer of coating material applied to the printed material is called
- Varnishing
 - Lamination
 - Gumming
 - Gold foiling
76. Which of the following is the package commonly used for packing tablets, capsules and electronic gadgets?
- Blister
 - Bottle
 - Container
 - Skin
77. An opening device made of plastic normally fitted to lined carton is called as
- Spouted pack
 - Tetra pack
 - Active pack
 - Intelligent pack
78. The paper based substrate is called as _____ material
- Isotropic
 - Anisotropic
 - Thixotrophy
 - None of the above
79. Which of the following packaging materials is used for packing of fruits?
- Leno bag
 - Piggy bag
 - Fishy bag
 - Birdy bag

80. VCI films are used to avoid _____ of automotive packaging
- Migration
 - Oxidation
 - Leaching
 - Corrosion
81. The process of exposing the test specimen to a standard condition is known as
- Conditioning
 - Calibrating
 - Characterizing
 - None of the above
82. The performance tests are mainly conducted to simulate the field conditions during
- Handling
 - Storage
 - Transportation
 - All the above
83. The Tin coating is measured by using
- Viscometer
 - Hygrometer
 - Elcometer
 - Luxmeter
84. Which of the following instruments is used to determine the interface of colours of glass containers during gradual cooling process?
- Polariscope
 - Microscope
 - Stethoscope
 - Stroboscope
85. Antioxidants are added to oils and fats to protect
- Leaching
 - Oxidative rancidity
 - Migration
 - Diffusion
86. How do you calculate water activity where P is vapor Pressure of food and P_0 is vapor pressure of pure water?
- $a_w \neq P/P_0$
 - $a_w = P_0/p$
 - $a_w \approx P/P_0$
 - $a_w = P/p$
87. Which of the following standards is used for drop testing of transport package?
- ASTM D4169
 - ASTM D4189
 - ASTM D1169
 - ASTM D5169
88. A corona treating system is designed to increase the _____ of plastic films
- Tensile
 - Optical value
 - Burst value
 - Surface energy
89. What is the formula to calculate Budgeted hourly rate?
- $BHR = (DDE - IDE)/DCH$
 - $BHR = (DDE - IDE) \times DCH$
 - $BHR = (DDE + IDE)/DCH$
 - $BHR = (DDE + IDE) \times DCH$
90. Absorption costing is inclusive of
- Total cost
 - Works cost
 - Variable cost
 - Fixed cost
91. Break-even point is
- Sales at which there is no profit or loss
 - Sales at which profit is high
 - Sales at which there is high overheads
 - Sales at which there is loss

92. Angle of incidence is
- Angle between sales and fixed cost lines
 - Angle between sales and variable cost lines
 - Angle between sales and total cost lines
 - Angle between fixed cost and total cost lines
93. Operating cost is calculated through
- Ledger account
 - Balance sheet
 - Profit and loss account
 - Cost sheet
94. The conversion costs is inclusive of _____ and _____
- Direct labor, overhead expenses
 - Indirect labor, overhead expenses
 - Direct material, overhead expenses
 - Indirect material, overhead expenses
95. In which of the print estimating methods, the codes are assigned for production components?
- Price line estimation
 - Price matrix estimation
 - Computerized estimation
 - Price line and matrix estimation
96. SPANKS formula can be used to calculate
- Paper quantity
 - Ink quantity
 - Glue quantity
 - Paste quantity
97. The Prime cost is comprises of
- All indirect cost
 - All direct cost
 - Direct and indirect cost
 - Specific costs
98. The selling price of the product is determined by adding
- Prime cost + profit
 - Work cost + profit
 - Cost of sales + profit
 - Overheads + profit
99. The cost of power consumption of a machinery is calculated on the basis of
- Value of machine
 - Direct wages
 - Horse power of machines
 - Number of lights
100. Hours worked $\times$ Rate per hour is known as
- Piece rate
 - Time rate
 - Differential rate
 - Labor turnover