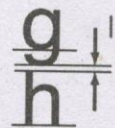


19 — PRINTING TECHNOLOGY

(Answer ALL questions)

56. The method of drying of UV inks is by _____ process
1. Evaporation
 2. Hot air drying
 3. Photopolymerization
 4. Oxidation
57. Bleaching is a process of
1. Using chemical to whiten pulp
 2. Preparing adhesive to become white
 3. Measuring whiteness of paper
 4. Refining the paper
58. Pulp produced by sulfate process is called
1. Mechanical pulp
 2. Thermo-mechanical pulp
 3. Kraft pulp
 4. None of the above
59. Calculate the ream weight in kg for 500 sheets the formula used
1. $\frac{wcd}{2ab}$
 2. $\frac{wdc}{2ab}$
 3. $\frac{wd}{2a}$
 4. $\frac{wdc}{ab}$
60. Flexural Stiffness is related to box
1. Compression Strength
 2. Tensile Strength
 3. Tear Strength
 4. Burst Strength
61. The process of pressing paper or board between heavy rolls in paper making machine is called
1. Bleaching
 2. Sizing
 3. Calendaring
 4. Refining
62. Varnish used for coating of boards used in food packaging is
1. Spirit varnish
 2. Vinyl lacquer
 3. Aqua based varnish
 4. UV varnish
63. The gap between **g** letter and **h** letter is named as I, the element I is called as
- 
1. Type height
 2. Leading
 3. Cap line height
 4. None of the above
64. Plastic packaging films are manufactured by the technology named as
1. Injection process
 2. Thermoforming
 3. Die process
 4. Extrusion process
65. When paper absorbs moisture, the dimensional change is twice the amount in
1. Machine Direction
 2. Cross Direction
 3. Thickness
 4. Area

66. The roll of pouch material loaded onto one end of the machine and the web is pulled over a triangular plow that folds it in half is
1. Former
 2. Angle bar
 3. Triangulate
 4. Frame
67. Resultant force factor on a roller with web wrap angle of 180° is
1. 1.414
 2. 0.51
 3. 1.00
 4. 2.00
68. Squeeze pressure in blanket to blanket configuration should be
1. 0.075
 2. 0.75
 3. 0.15
 4. 0.30
69. The plate cylinder is driven by a helical gear set with 35° teeth angle. What is the lateral gear shift required if a 5 mm circumferential misregister needs to be corrected
1. 10.20 mm
 2. 2.50 mm
 3. 10.00 mm
 4. 6.20 mm
70. In a festoon system there are 4 rollers on the moving arm and 5 at the bottom. The distance between them is 3 meters. if the machine is running at 200m/min., then the splicing time available is
1. 1.2 mins
 2. 1.2 secs
 3. 7.2 mins
 4. 7.2 secs
71. Density of solid and 70% tone region is, 1.10 and 0.70 respectively. Calculate the percentage print contrast
1. 46
 2. 63
 3. 55
 4. 36
72. The ratio of light reflected from a printed ink film and a reference white is 0.07943. Calculate the density
1. 0.51
 2. 0.75
 3. 1.10
 4. 1.20
73. The Lab values of a bright orange spot colour yields 74.8, 50.1, 49.4. whereas the o.k. sheet has 73.2, 54.3, 51.5. what is the Del E
1. 2.0
 2. 2.3
 3. 4.0
 4. 5.0
74. Yellow colour seen from a printed sample is due to the reflection of
1. Red and Green
 2. Cyan and Magenta
 3. Blue and Red
 4. Green and Blue
75. PDF refers to
1. Print Definition Format
 2. Pre Defined Format
 3. Post Description Format
 4. Portable Document Format

76. If the opportunity cost = 0 in the optimal test of transportation problem indicates
1. The solution is unique and optimal
 2. The solution is optimal and non unique
 3. The solution is non optimal and non unique
 4. The solution is non optimal and unique
77. The 'n' jobs in 'm' machine class of sequencing problem can be solved by
1. Gantt chart
 2. HAM
 3. Graphical method
 4. Transportation method
78. Hardness of the rollers can be measured by
1. Aerometer
 2. Durometer
 3. Pal gauge
 4. Dot meter
79. The allowance provided in the margin of inner pages of saddle binding forms is called
1. Creep
 2. Shingling
 3. Clutter
 4. Spine
80. Introducing XML in the last stage of prepress workflow is
1. XML - First
 2. XML - in
 3. XML - Out
 4. XML - Thro
81. _____ is the process of checking and reporting the errors in digital documents.
1. Purging
 2. Checking
 3. Archiving
 4. Pre- flighting
82. Gravure process uses image carrier that are made of
1. Rubber
 2. Photopolymer
 3. Metal
 4. Plastic
83. Star target is used to measure
1. Dot gain
 2. Slur
 3. Doubling
 4. All of the above
84. Colour of the digital printer is ascertained by
1. Form proof
 2. Contract proof
 3. Digital proof
 4. None of the above
85. More number of sheets folded collectively is called
1. Lump folding
 2. Quire folding
 3. Gate folding
 4. Letter folding
86. International conditions for paper testing are
1. 18°C & 70% R.H
 2. 23°C & 50% R.H
 3. 25°C & 75% R.H
 4. 20°C & 80% R.H
87. The shape of dots in midtone is
1. Circular
 2. Triangular
 3. Rectangular
 4. Square

88. "Kaizen" in a Printing Press means
1. Continuous Improvement
 2. Quality Assurance
 3. Quality Control
 4. Bench marking
89. The filter used for separating magenta colour is
1. Yellow
 2. Blue
 3. Green
 4. Red
90. _____ is an important consideration for letter press offset printing.
1. Pick resistance
 2. Porosity of paper
 3. Bond strength
 4. Water resistance
91. The 1064 nm laser used in CTP is called
1. Red laser
 2. Violet laser
 3. Green laser
 4. Infrared (YAG) Thermal Laser
92. The test for CTP plate calibration, done for fine tuning the dot is called
1. Zoom test
 2. Exposure test
 3. Focus test
 4. None of the above
93. Aluminum can is printed by which method
1. Flexo Printing
 2. Screen Printing
 3. Gravure Printing
 4. Digital Printing
94. Indian Standard number for list of pigments and colorants for use in contact with food stuffs pharmaceuticals and drinking water
1. IS: 10171
 2. IS: 9833
 3. IS: 9845
 4. IS: 9894
95. Another name for WVTR is
1. OTR
 2. MVTR
 3. PUTR
 4. WATR
96. Using Brunner equation what is the trap value of Red overprint, if the Green filter readings of Red is 1.02, Magenta is 1.35 and Yellow is 0.07
1. 84
 2. 64
 3. 74
 4. 94
97. In an inking system, contact between a fixed roller and the transfer roller is established with
1. Lock nut
 2. Lever
 3. Set screws
 4. Eccentric bush
98. Double sheets could be avoided by
1. Adjusting the pile height governor
 2. Increasing the blast air
 3. Reducing Vacuum in suckers
 4. Reducing the blast air
99. Absorbency of paper is taken care in which stage of paper making?
1. Beating
 2. Loading
 3. Sizing
 3. Colouring
100. The purpose of Dandy roll is
1. Impart water mark
 2. Squeeze water
 3. Dry the paper
 4. Apply pressure
101. The total range of colors that can be rendered by a process color printer is called
1. Color separation
 2. Color portability
 3. Color transform
 4. Color gamut

102. An alternative to gum arabic is
1. Liquefied rosin
 2. Carboxy methyl cellulose
 3. Sodium meta bisulphate
 4. Bichromate
103. For digital camera images, the two common file formats are
1. JPEG & TIFF
 2. GIF & BMP
 3. JDF & GIF
 4. BMP & PICT
104. Ink doesn't adhere to substrate due to
1. Surface tension
 2. Cohesion tension
 3. Coercive tension
 4. Adhesion tension
105. Purpose of chilling unit in heat set press
1. To increase the moisture content
 2. To set the binder and pigment
 3. To reduce the temperature
 4. To reduce the pH of paper
106. The extrusion blow moulding process is used for
1. Bag making
 2. Bucket making
 3. Jar making
 4. None of them
107. Micro flute corrugated board refers to?
1. A flute
 2. B flute
 3. C flute
 4. G flute
108. The first stage tooling during glass container forming, is known as
1. Gob mould
 2. Parisonmould
 3. Cavity mould
 4. None of the above
109. The stacking height of the package is calculated by using
1. Mckee formula
 2. Total stacking weight
 3. Drop test value
 4. All the above
110. The sensitivity of the product is defined by
1. Fragile factor
 2. Cushion factor
 3. Burst factor
 4. Tensile factor
111. Gray balancing is done in prepress to compensate for
1. Improper Inking in press
 2. Spectral deficiency of ink
 3. Dot gain in press
 4. Deficiencies in original image
112. Colour perception varies due to
1. Light Source
 2. Surface characteristics
 3. Sensitivity of cones
 4. All of the above
113. Grey Component Removal is applied for
1. Better ink drying
 2. Spectral deficiency of ink
 3. Color correction
 4. Improving image saturation
114. Profiles are not used for
1. Defining device gamut
 2. Increasing the device gamut
 3. Color space transformations
 4. Soft proofing
115. The printing process widely used in the converting industry for printing plastic materials for packaging
1. Screen printing process
 2. Flexographic printing process
 3. Lithographic printing process
 4. Letterpress printing process