

## 19 — PRINTING TECHNOLOGY

(Answer ALL questions)

56. Image area in gravure cylinder is
1. Raised
  2. Normal
  3. Engraved
  4. Plain surface
57. Indian standard number for smoothness / roughness of paper is
1. IS: 9894
  2. IS: 1060
  3. IS: 9681
  4. IS: 9698
58. In corrugated boxes which flute is best for stacking strength
1. A-flute
  2. B-flute
  3. C-flute
  4. E-flute
59. Expansion of RIP
1. Raster Image Processor
  2. Recording Image Processor
  3. Replace Image Program
  4. Rasterizer Image Program
60. A characteristic quality that can be quantified in numerical units is
1. Measure
  2. Mean
  3. Mode
  4. Attribute
61. The materials responsible for binding of ink on the substrate in the constituents of printing inks
1. Colorant
  2. Resins
  3. Additives
  4. Solvents
62. \_\_\_\_\_ method is used for measuring the surface strength of paper.
1. Wax pick test
  2. Gloss
  3. Cobb test
  4. None of the above
63. In papermaking \_\_\_\_\_ is the ratio of water to the pulp can be feed in the paper making machine.
1. 50:1
  2. 99:1
  3. 70:1
  4. 80:1
64. The property which is very important for cigarette paper is
1. Smoothness
  2. pH
  3. Ash content
  4. Water absorption
65. Drop on demand process in inkjet printing is also called as
1. Impulse process
  2. Bubble jet process
  3. Valve jet process
  4. Video jet process
66. Parallel folds used is also called as
1. Accordion fold
  2. Right angle fold
  3. French fold
  4. Buckle fold
67. Piling occurs mainly due to
1. Insufficient moisture resistance
  2. Insufficient rub resistance
  3. Poor loading
  4. Poor sizing



68. Ink drying could be affected due to fountain solutions
1. Acidity
  2. Alkalinity
  3. Conductivity
  4. Temperature
69. Preferred surface treatment for offset plate-making is
1. Mechanical graining
  2. Electrochemical graining
  3. Anodizing
  4. Sand blasting
70. Paper grain direction should run parallel to the cylinder for
1. Easy folding
  2. Proper feeding
  3. Better printability
  4. Better registration
71. What is the thickness of a normal offset plate?
1. 0.03 mm
  2. 3.00 mm
  3. 0.15 mm
  4. 0.03 inch
72. How many sheets of  $8\frac{1}{2}" \times 11"$  could be obtained from a stock of  $28" \times 34"$ ?
1. 9
  2. 12
  3. 10
  4. 8
73. The contact pressure between the plate and blanket should not exceed.
1. 0.075 mm
  2. 0.10 mm
  3. 0.15 mm
  4. 0.20 mm
74. To increase the print length circumferentially the print can resort to
1. Stretch the plate
  2. Condition the paper
  3. Increase the blanket packing
  4. Increase the plate packing
75. Temporary care for a smashed blanket is to apply
1. Methyl Ethyl Ketone
  2. Iso Propyl alcohol
  3. Petrol
  4. Benzene
76. Metallic ring in the punched hole to prevent tearing-off of the board
1. Guarding
  2. Tipping
  3. Eyeletting
  4. Banding
77. Types and engravings are impressed into the hardcovers of the books without using ink or foil
1. Tooling
  2. Blocking
  3. Printing
  4. Blinding
78. The sheets are folded at  $\frac{1}{3}$  or  $\frac{2}{3}$  of its length at the first folding section followed by a cross folding
1. Symmetrical right angled fold
  2. Asymmetrical right angled fold
  3. Concertina fold
  4. Gripper edge fold
79. The principle of three knife cutting machine
1. Knife cutting against a stick
  2. Knife cutting against a sleeve
  3. Knife cutting against a counter collar
  4. Knife cutting against a shear



80. Problem that encounter due to low clamping pressure in the cutting machine
1. Overcut
  2. Undercut
  3. Wavy cut
  4. Bulge cut
81. A short line printed on the back of each section to view on the gathered book block
1. Signature
  2. Collating mark
  3. Gilding
  4. Blocking
82. The type of securing method adopted for school books
1. Saddle wire stitching
  2. Side wire stitching
  3. Perfect binding
  4. Loose leaf binding
83. The term "aseptic" refers
1. Absence of micro-organisms
  2. Heat resistant
  3. Water vapor
  4. None of the above
84. The software used to control and validate the packaging line
1. SAP
  2. GAMP
  3. PRO-E
  4. ANSIS
85. \_\_\_\_\_ is not a Friction-fit closure type.
1. Crown
  2. Snap fit caps
  3. Press on caps
  4. Lug caps
86. \_\_\_\_\_ is the main condition used in food industry to prevent the spillage of food.
1. Temperature
  2. Moisture
  3. RH
  4. Protective
87. \_\_\_\_\_ film is replacing the BOPP film in food packaging industry.
1. PE
  2. PP
  3. PLA
  4. EVOH
88. Plastic material identification can be done by burning test. If the color of the flame is orange yellow and a sweet odour identified as \_\_\_\_\_ materials.
1. PS
  2. PE
  3. PP
  4. Cellulose acetate
89. Double wall corrugated board is also called as
1. 7 ply
  2. 3 ply
  3. 9 ply
  4. 5 ply
90. \_\_\_\_\_ tester is used to find the water absorption characteristics of the corrugated boxes used for packaging applications.
1. WVTR
  2. Cobb
  3. Waterproofness
  4. Permeability Test
91. Procedures those inactive microorganisms in foods
1. Irradiation and Heat Processing
  2. Chill Storage
  3. Emulsions
  4. Fermentation



92. \_\_\_\_\_ process is used for dairy products for extending the shelf life.
1. Smoking
  2. Pickling
  3. Sugaring
  4. Fermentation
93. The type of gases used in MAP system
1. Carbon dioxide, Nitrogen, Oxygen
  2. Nitrogen, Ethylene, Oxygen
  3. Helium, Carbon monoxide, Oxygen
  4. Ethylene, Helium, Oxygen
94. Most of the plastics crates are made up of
1. LDPE or HDPE or PP
  2. HDPE or PP or PS
  3. Only LDPE
  4. HDPE or PP
95. MAP, in conjunction with temperature control, it extends the shelf life of \_\_\_\_\_ days for fruits and vegetables.
1. 8-20
  2. 10-60
  3. 15-30
  4. 7-14
96. An engineering process for producing plastic items moulded under pressure
1. Injection moulding
  2. Blow moulding
  3. Forming
  4. Pressing
97. Typical thermoforming temperatures for polystyrene blister packs are
1. 102 - 115°C
  2. 120 - 130°C
  3. 132 - 140°C
  4. 143 - 176°C
98. Ideal method of liquid level inspection metal cans employ
1. Photo electric sensors
  2. Ultrasonic
  3. Laser
  4. Gamma radiation
99. For a capless closure sealing that uses material, such as paper or plastic the sealing system employed is
1. Induction
  2. Conduction
  3. Laser
  4. Ultrasonic
100. High degree of precision in capping operation is achieved by employing
1. Clutch
  2. Brake
  3. Servo motor
  4. Pneumatic
101. Carbonated liquids are filled using
1. Gravity feed
  2. Tumble filler
  3. Counter pressure
  4. Level sensing
102. A process in which the food product is heated at a temperature and for a time period called
1. Sterilization
  2. Retort
  3. Steaming
  4. Pasteurizing
103. The overall line efficiency of a packaging line is estimated to be 70% and the average production requirement is 200 bpm. Then required nominal line speed is
1. 342
  2. 322
  3. 286
  4. 246



104. Orienting the films and heat stabilising at elevated temperature is called

1. Forming
2. Casting
3. Orienting
4. Annealing

105. Plastic films are corona treated to increase

1. Bond strength
2. Tensile strength
3. Tear strength
4. Barrier property

106. The purpose of a distribution or transportation simulation test is to evaluate

1. Oxygen transmission rate
2. Water vapour transmission rate
3. Hardness
4. Dynamic hazards

107. The basis of packaging design and performance depends on the

1. Component materials
2. Component testing
3. Engineering tolerances
4. Package printing

108. In flexography process the image areas are

1. Raised
2. Recessed
3. Same plane
4. None of the above

109. \_\_\_\_\_ inks that are commonly used in flexo process particularly suitable for packaging printing.

1. Baking inks
2. Sublimation inks
3. Water based inks
4. Liquid inks

110. \_\_\_\_\_ are primary colors in printing.

1. Blue, Green and Red
2. Yellow, Magenta and Cyan
3. White, Black and Red
4. Yellow, White and Black

111. The packaging commonly used for packing tablets, capsules and electronic gadgets

1. Blister
2. Bottle
3. Container
4. Skin

112. Glass projections inside the bottle is known as

1. Spikes
2. Bird swing
3. Pristine
4. Monolithic

113. \_\_\_\_\_ is the base pallet, strapping and wrapping used to bundle the boxes or crates for transport and distribution.

1. Transit packaging
2. Distribution packaging
3. Primary packaging
4. Consumer packaging

114. Strict monitoring of deadlines to keep tight time schedule set by customers

1. Lean Production
2. Lean Management
3. Effective Production
4. Tracking

115. \_\_\_\_\_ is used for easy opening of bags.

1. Electric eye
2. Extra forming shoes
3. Notch
4. Punched hole