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. $\frac{\text{wcd}}{2\text{ab}}$
 - $2. \qquad \frac{\text{wdc}}{2\text{ab}}$
 - $3. \quad \frac{\text{wd}}{2a}$
 - 4. $\frac{\text{wdc}}{\text{ab}}$
- 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			82. Gravure process uses image carrier that are made of		
	1.	The solution is unique and optimal		1.	Rubber	
	2.	The solution is optimal and non unique		2.	Photopolymer	
	3.	The solution is non optimal and non		3.	Metal	
	4.	unique		4.	Plastic	
	7.	The solution is non optimal and unique			·	
77.	The	e 'n' jobs in 'm' machine class of sequencing	83.	Sta	ar target is used to measure	
		blem can be solved by		1.	Dot gain	
	1.	Gantt chart		2.	Slur	
	2.	HAM		3.	Doubling	
	3.	Graphical method		4.	All of the above	
	4.	Transportation method		7.	All of the above	
78.	Hardness of the wallows and l			Col	our of the digital printer is ascertained by	
. 0.		dness of the rollers can be measured by		1.	Form proof	
	1. 2.	Aerometer Durometer		2.	Contract proof	
	3.	Pal gauge		3.	Digital proof	
	4.	Dot meter		4.	None of the above	
9.	The allowance provided in the margin of inner pages of saddle binding forms is called		85. More number of sheets folded collectively is called			
	1.	Creep		1.	Lump folding	
	2.	Shingling		2.	Quire folding	
	3.	Cluttter		3.	Gate folding	
	4.	Spine		4.	Letter folding	
0.	Intro	ducing XML in the last stage of prepress				
	workflow is			Inte	rnational conditions for paper testing are	
	1.	XML - First		1.	18°c & 70% R.H	
	2.	XML - in		2.	23°c & 50% R.H	
	3.	XML - Out		3.	25°c & 75% R.H	
	4.	XML - Thro		4.	20°c & 80% R.H	
		- A				
	reporting the errors in digital documents.		87.	The s	shape of dots in midtone is	
	1.	Purging		1.	Circular	
	2.	Checking		2.	Triangular	
	3.	Archiving		3.	Rectangular	
	4.	Pre- flighting		1.	Square	
					~quait	

			95.		C MAXAD:
88.	"Kaizen" in a Printing Press means				her name for WVTR is
	1.	Continuous Improvement		1.	OTR
	2.	Quality Assurance		2.	MVTR
	3.	Quality Control		3.	PUTR
	4.	Bench marking		4.	WATR
89.	The filter used for separating magenta colour is 1. Yellow		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	
	2.	Blue		1.	84
	3.	Green		2.	64
	4.	Red		3.	74
					. 94
90.	is an important consideration for				
	letter press offset printing.		97.	In an inking system, contact between a fixed	
	1.	Pick resistance			and the transfer roller is established
	2.	Porosity of paper		with 1.	Lock nut
	3.	Bond strength		2.	Lever
	4.	Water resistance		3.	Set screws
91.	The	1064 nm laser used in CTP is called		4.	Eccentric bush
31.	1.	Red laser	*		
	2.	Violet laser	98.	Doub	le sheets could be avoided by
	3.	Green laser		1.	Adjusting the pile height governor
				2.	Increasing the blast air
	4.	Infrared (YAG) Thermal Laser	6	3.	Reducing Vacuum in suckers
92.		test for CTP plate calibration, done for tuning the dot is called		4.	Reducing the blast air
	1. Zoom test		99.	Absorbency of paper is taken care in which stage of paper making?	
	2.	Exposure test		1.	Beating
	3.	Focus test		2.	Loading
	4.	None of the above		3.	Sizing
				3.	Colouring
93.	Aluminum can is printed by which method			0.	Colouring
	1. Flexo Printing		100.	The	purpose of Dandy roll is
	2.	Screen Printing		1.	Impart water mark
	3.	Gravure Printing		2.	Squeeze water
	4.	Digital Printing		3.	Dry the paper
				4.	Apply pressure
94.	Indian Standard number for list of pigments and colorants for use in contact with food stuffs pharmaceuticals and drinking water		101.	The	total range of colors that can be rendered process color printer is called
	1. IS: 10171			1.	Color separation
	2.	IS: 9833		2.	Color portability
	3.	IS: 9845		3.	Color transform
	4.	IS: 9894		 4. 	Color gamut
				4.	Color gamut

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

Lithographic printing process

Letterpress printing process

3.

4.

3.

4.

Cavity mould

None of the above