SFAI

Sl. No.: 40000017

	٠	<i>A</i> .	7 A	▲ T/	/ JL J	L 1	L/.	L	•
Register Vumber									τ,

2017

PRINTING TECHNOLOGY (Diploma Standard)

Time Allowed: 3 Hours]

[Maximum Marks: 300

 $\Delta T T T T T T$

Read the following instructions carefully before you begin to answer the questions.

IMPORTANT INSTRUCTIONS

- 1. The applicant will be supplied with Question Booklet 10 minutes before commencement of the examination.
- 2. This Question Booklet contains 200 questions. Prior to attempting to answer the candidates are requested to check whether all the questions are there and ensure there are no blank pages in the question booklet. In case any defect in the Question Paper is noticed it shall be reported to the Invigilator within first 10 minutes and get it replaced with a complete Question Booklet. If any defect is noticed in the Question Booklet after the commencement of examination it will not be replaced.
- 3. Answer all questions. All questions carry equal marks.
- 4. You must write your Register Number in the space provided on the top right side of this page. Do not write anything else on the Question Booklet.
- An answer sheet will be supplied to you, separately by the Invigilator to mark the answers.
- 6. You will also encode your Register Number, Subject Code, Question Booklet Sl. No. etc. with Blue or Black ink Ball point pen in the space provided on the side 2 of the Answer Sheet. If you do not encode properly or fail to encode the above information, action will be taken as per commission's notification.
- 7. Each question comprises four responses (A), (B), (C) and (D). You are to select ONLY ONE correct response and mark in your Answer Sheet. In case you feel that there are more than one correct response, mark the response which you consider the best. In any case, choose ONLY ONE response for each question. Your total marks will depend on the number of correct responses marked by you in the Answer Sheet.
- 8. In the Answer Sheet there are four circles (A), (B), (C) and (D) against each question. To answer the questions you are to mark with Ball point pen ONLY ONE circle of your choice for each question. Select one response for each question in the Question Booklet and mark in the Answer Sheet. If you mark more than one answer for one question, the answer will be treated as wrong. e.g. If for any item, (B) is the correct answer, you have to mark as follows:

 $A \bullet C \Phi$

- 9. You should not remove or tear off any sheet from this Question Booklet. You are not allowed to take this Question Booklet and the Answer Sheet out of the Examination Hall during the examination.

 After the examination is concluded, you must hand over your Answer Sheet to the Invigilator. You are allowed to take the Question Booklet with you only after the Examination is over.
- 10. The sheet before the last page of the Question Booklet can be used for Rough Work.
- 11. Do not tick-mark or mark the answers in the Question Booklet.
- 12. Failure to comply with any of the above instructions will render you liable to such action or penalty as the Commission may decide at their discretion.

SPACE FOR ROUGH WORK

Angenent.

1.	The s	olid state device that o	consists of light	sensitiv	e elements in	linear-or a	rea-array	of form
	(A)	PMT			CCD			
•	(C)	SCSI		(D)	CEPS			
	1.4				. • • • • • • • • • • • • • • • • • • •	en e		•
2.		ized color separations anisms	s are electroni	cally se	nt from a c	color scanne	er to a	proofing
•	(A)	Instant image proof	• .	(B)	Transparent	color proof		
	(C)	Opaque color proof	•		Digital proof	ing		• • • • • • • • • • • • • • • • • • • •
3.		process in which small ings and white space	, quick pencil r		•		nent of t	ype, line
	(A)	Rough layout	**	(20)	Thumbnail s	ketches		,
	(C)	Artistic design	•	(D)	Layout			
			. •		•			
4.	A one	e color reproduction pr	inted on a color	ed sheet	is known as			
	(A)	Flat color						
	0	Fake color						`.a
	(C)	Process color		·	•			
	(D)	Four color process pr	rinting			·		
	`		•			•		
5 .	In a	typeface, any part of a	letter that exte	nds abo	ve the X-heig	ht '	•	
	(A)	Descender		0	Ascender			
•	(C)	Type face		(D)	Body height	•		·. ·
6.		it size of the image is 2 lution should be	2400 dpi and if t	he outpu	nt size requir	ed is 125%,	then the	scanning
	(A)	2400 ppi	, ,	(2)	3000 ppi		•	
	(C)	2600 ppi		(D)	2800 ppi			
					•			

7 .		halftone dots	are prescribed for p	rint control bars.	
	(A)	Square	(B)	Elliptical	
	(5)	Circular	(D)	Diamond	
				•	
8.	A ne	wspaper article has 30 lin	nes of text set on 10	0/12 points. The column dept	h of the article
	in in	ches is			
	(A)	2.5	(P)	5.0	
	(C)	7.5	(D)	10.0	
^		is someowned w	rith the equilibrium	n and visual weight of the im	nga
9.	٠			Dominance	age.
	(C)	Balance	(B)	•	
	(C)	Proportion .	(D)	Unity	•
10.	In th	nermal transfer process, w	vhen pigments are i	involved, the transfer mecha	nism is termed
	as		•	_	
	(A)	Sublimation	(C)	Ablation	
	(C)	Diffusion	(D)	Drop on demand	
				4 1 1 1	
11.		device that is used to mo	easure color values	such as hue, lightness or b	rigntness, and
	(A)	Inspection systems	· (B)	Densitometer	• *
	(11)	Spectrophotometer	(D)	Microscope	•
	()	opecurophowniese:	(2)	Milotocope	
12.	The	process of converting ima	ges into bitmap for	m for display or printing	
•	(A)	Conversion		Rasterization	
	(C)	Acceleration	(D)	Compression	

10.	THE	effective fight source for offset place exp	ousure		•
	(A)	carbon arc lamps	(0)	metal halide lamps	
	(C)	xenon lamps	(D)	mercury vapour lamps	
			•		
14.	In sc	reen printing process printers currentl	y use	durable, — mesh screens	that
	are c	capable of reproducing remarkable read	able 6	5 pt. type.	
	(A)	ordinary iron mesh			
	(B)	fine cotton mesh		en e	
	C	ultra-fine stainless steel mesh			
	(D)	fabric mesh			
			•		
15.		react not to visible light	but t	o thermal radiation and have distin	ıctive
	thres	shold characteristic during imaging.			
	4	Thermal sensitive aluminium plates			
	(B)	UV based photopolymer plates			•
•	(C)	Laser based polymer plates	•		
	(D)	None of the above		•	
				•	
l 6 .	In co	nventional gravure design, every well o	n tha	cylinder has	
io.			on one	cymiuci nas	
	(A)	same width and same depth			
		same width and varying depth			
	(C)	varying width and same depth			
	(D)	varying width and varying depth			
	••				
17.	The p	process used to make photographic ima	ges vi	sible in film/plate after exposure to lig	ht
	A	Developing	(B)	Fixing	
	(C)	Reducing	(D)	Stop bathing	

(A) path roller

dancer roller

- (C) turner bars
- (D) compensator rollers

19. The type of feeder that separates and forwards one sheet at a time to the feedboard

- (A) stream feeder
- (B) air separators
- (C) double sheet feeder

single sheet feeder

20. A revolving, motorized cone-shaped device that runs on a track from one end of the ink fountain to the other, keeping the ink soft and flowing

- (A) fountain splitter
- (B) fountain height monitor

ink agitator

(D) ink leveller

21. The formula to calculate the print contrast

$$\frac{D_S - D_{75}}{D_S} \times 100$$

(B)
$$\frac{D_S - D_{50}}{D_S} \times 100$$

$$(C) \qquad \frac{D_S - D_{25}}{D_S} \times 100$$

(D)
$$\frac{D_S - D_{100}}{D_S} \times 100$$

22. The roller substituted for form roller to reduce ghosting

(A) Rider roller

Oscillating form roller

- (C) Ductor roller
- (D) Fountain roller

(A)	Conventional blanks	et	(D)	Compressible blanket	•	
(C)	Non-compressible bl	anket	(D)	Under blanket		,
						- - v
In –	direction	n, the blanket i	s to be	mounted around the circ	umference (of the
blan	ket cylinder.		_	•		
(A)	weft direction		(3)	warp direction		
(C)	left direction		(D)	drift direction		
		•			•	•
The	press which can print	atleast one colo	or on bo	th sides of a sheet in a sir	gle pass th	rough
	press	•				Ŭ
(A)	Multi color press	•	(B)	Small offset press		
4	Perfecting press	•	(D)	Single color press		
	roller is use	d to evenly dist	ribute tl	he dampening film.	e i i	
				1 0		
(A)			(B)	Ductor		
(A) (C)	Pan		(B)	•		
(A) (C)			(B)	Ductor Oscillating		
(C)	Pan Form	orar is 0.007"		Oscillating	is () ()()3" an	d the
(C)	Pan Form plate height above bea		the blan	Oscillating ket height above bearer		
(C) The	Pan Form plate height above bea		the blan	Oscillating		
(C) The	Pan Form plate height above beance between bearer is		the blan	Oscillating ket height above bearer		
(C) The dista	Pan Form plate height above beance between bearer is this setting is		the blan	Oscillating aket height above bearer searer contact press. The		
(C) The dista from (A)	Pan Form plate height above beance between bearer is this setting is 0.001"		the blan	Oscillating aket height above bearer searer contact press. The searer contact press.		
(C) The dista from (A) (C)	Pan Form plate height above beaunce between bearer is this setting is 0.001" 0.003"	s 0.008" for the	the blance non-be	Oscillating A search contact press. The search contact press. The search contact press. The search contact press.	squeeze obt	ained
(C) The dista from (A) (C)	Pan Form plate height above beaunce between bearer is this setting is 0.001" 0.003"	s 0.008" for the	the blance non-bear (D)	Oscillating aket height above bearer searer contact press. The searer contact press.	squeeze obt	ained
(C) The dista from (A) (C)	Pan Form plate height above beaunce between bearer is this setting is 0.001" 0.003"	s 0.008" for the	the blance non-bear (D)	Oscillating A search contact press. The search contact press. The search contact press. The search contact press.	squeeze obt	ained

29.		impression roller that autor	matically	chan	ge its shape to co	onform to th	e amoun
	(A)	back up roller	٠				
	(B)	dual back up roller					
	(C)	turret impression roller					
		flexible impression roller					
	•				• .		,
30.	The	angular measurement where	the surfa	ce of	the gravure cylinde	r is free of ir	ık prior t
	print	· ·					· •
,	4	dry angle		(B)	wet angle	1	•
	(C)	contact angle		(D)	set angles		•
						•	•
31.		never the web stops, the grave called as	ıre cylind	er mi	ust continue to rotat	e slowly in th	ne ink per
	V	cylinder agitation		(B)	electroplating		
	(C)	doctor blade floating		(D)	granty floating		
						•	
32,	The	coating plated over the surface	of a grav	ure c	ylinder to have easy	engravability	y
	(A)	chromium		(2)	copper		• ·
	(C)	nickel	•	(D)	aluminum		•
33.	Spec	ks of dust on the clear areas of	f the posit	ive a	s on the contact fran	ne glass caus	es
	(A)	Early stencil breakdown		(B)	Adhesion failure		
	(C)	Edge curl	. 1		Pin holes		
					•	•	
34.	Intag	glio printing process refers to	•				
•	U.S.	gravure		(B)	screen		
-	(C)	digital		(D)	offset		

		List I					List II			· •
	•	(Printi	ng proce	esses)			(Image	carriers)		
	(a)	Letterp	ress			1.	PS plat	te		
	(b)	Offset				2.	Photo p	oolymer plate		
	(c)	Gravur	e			3.	Metal I	Block		
	(d)	Flexo	,			4.	Copper	cylinder		
٠		(a)	(b)	(c)	(d)			•		
	4	3	1	4	2					
-	(B)	3	4	1	2				• •	
	(C)	4	3	2	1			,		
	(D)	3	2	1	4					
	(D)	Ü								
-									•	×
36.	The	exposur	e done t	o harde	n or cu	re the	base of t	the flexographic pla	ates	
	(A)	Face e	exposur	e .		ż	(B)	Post exposure	•	
	(C)	Main	exposur	e				Back exposure		
										•
37 .	A cv	linder b	ase desi	gn in w	hich the	e supr	orting sl	naft is permanently	z attached to tl	he printing
	cylir			0 · · ·		F F				P
	(A)	Sleeve	e cylinde	ers			(B)	Mandrel shaft cy	linders	
	401	Integr	al shaft	cylinde	ers		(D)	Seamless cylinde	ers	
		1			•			. *		
38.	ooro	mic mat		ne ink n	netering	g roll i	ın flexogr	aphic process and	is made of eith	ner steel o
			aiń roll				, (P	Anilox roll	•	
	(A)						(10)	— —— , 	3	
·		Plate	cylinder	; -		,	(D)	Impression cylin	der	
	(C)								•	• •
	(C)									
3 9 .	(C)	·	inv	olve the	select	tive c	harging	of a dielectric su	rface by expos	sure to ar
3 9 .		tron bear						of a dielectric sur e surface by expos		sure to ar
3 9 .				chargin	g of a p			7		sure to ar

40.		nding, the stitch at the to wing one.	op and bottom of the	spine which connects	each signature to the
		Kettle stitch	(B)	Wire stitching	Sec. 4
	(C)	Saddle stitching	(D)	Side stitching	•
41.	Brea	king of the fibers in pape	r or board to facilita	te folding or bending	
	(A)	Round cornering	(B)	Numbering	
٠	(C)	Gumming		Creasing	
42.	'Squ	areness' of trimmed pape	r is obtained by util	izing the	— component of the
	cutti	ng machine.			
	(A)	Back gauge		Side plates	
	(C)	Clamp plate	(D)	Cutting stick	
43 .	The	operation of putting lines	on blank or preprin	ted sheets	
	4	Ruling	(B)	Pad making	
	(C)	Edge decoration	(D)	Blocking	
44.	In sa	addle stitching, the thickr	ness of the bound she	ould not exceed	•
	(A)	9 mm	O	7 mm	
	(C)	3 mm	(D)	4 mm	
-					
45 .	Two	or more folds parallel to	each other with adja	cent folds in opposite	directions
	4	Accordion fold	(B)	Zig zag fold	
	(C)	Gate fold	(D)	Quire fold	
	•			•	
46.	Bind thre	ling printed matter by pad	piercing the pages	and securing them to	ogether with wire or
·	4	stitching	(B)	sewing	
	(C)	binding	(D)	perfect binding	•
			•		

10

AWMPT/17

	(A)	148 × 210 mm	(B))	210 × 297 mm
•	(0)	297 × 420 mm	(D)	420 × 524 mm
,	٠				
48.		packaging board that has midd	le layer o	of	mechanical pulp sandwiched by bleached
	(A)	solid bleached board			
,	0	folding box board			
,	(C)	solid unbleached board	•		
	(D)	corrugated board			
49 .	Scree	en Printing Inks usually dry by a	combinat	ioı	n of — and — process.
	(A)	precipitation and absorption	•		
	B	evaporation and oxidation	.*		
÷	(C)	absorption and penetration		•	
•	(D)	setting and drying	•		
50.		most common application of the aging.	rmoforms	3 i	is for various forms of ———————————————————————————————————
4,	(A)	pouch	• 🐠	1	blister
	(C)	bags	(I))	bottles
51.	The	moisture passing through the for a packaging film.	film in	a	given time is measured and reported a
•	4	WVTR	· (I	3)	OTR
	(C)	Gas transmission rate	(I))	Moisture level
		•	•	;	
52 .		ISO standard defines the	e measure	m	ent of brightness in paper.
y •	· (A)	ISO 4698	·	В)	ISO 2461
		1SO 2469	(1	D)	ISO 4662
	<i>y</i>				

47. The size of A3 paper

(A)	1		(B)	3			
(C)	4			$lacksquare_2$			
The	reflection densitie	s of magenta, cya	n, yellow	and their to	vo – colot	ır over priı	nts are
	ne following formul		•	ercentage			
4	trapping percent	$tage = \frac{D_{OP} - D_1}{D_2} \times$	100				
(B)	trapping percen	tage = $\frac{D_1 - D_{OP}}{D_2} \times$	100				
(C)	trapping percent	tage = $\frac{D_{OP} - D_1}{D_2}$			* .		
(D)	trapping percent	$age = \frac{D - D_1}{D_2} \times 100$	0	•			
-	·						
	——— are made	by grinding the	dry pigm	ent into the	e varnish	and dispe	ersing '
other	r additives require					 ,	
(A)	Liquid Inks		(2)	• Paste Inks			
(C)	UV Inks		(D)	EB Inks		•	

(A) Iron

(C)

56.

(B) Cobalt oxides

Thickness.

Closure design

Chrome oxides

Rim size

Application torque

(D) Sulfur

is a measure of the fightners to which the capping machine turns the closure.

(B)

(D)

58. The standard followed for measuring smoothness of paper by air leak principle is

TAPPI T479

(B) TAPPI T538

(C) ASTM 478

(D) ISO 489

		,				•		
59 .	The r	nethod of extracting each	and every	expense	related t	to a job fron	the custo	mer
	(A)	Allocation of expenses		•		•		

(C) Distribution of expenses

Recovery of expenses

- (D) Identification of expenses
- 60. The total expenditure incurred to produce, store and sell one unit of a product or service called
 - (A) Fixed Cost
 (B) Variable Cost
 Unit Cost
 (D) Overhead Cost
- 61. The type of cost that has no direct relationship with the number of copies of the publication produced
 - Fixed Cost (B) Variable Cost
 - (C) Direct Cost (D) Indirect Cost
- 62. Substance of paper (GSM), the width of the reel (B) and the total length of paper (L) is wrapped in a reel. The weight of the reel (W_R) is calculated by

(A)
$$W_R = (GSM + B + L)/1000$$
 (B) $W_R = (GSM \times B) + L/1000$ (C) $W_R = (GSM \times L) + B/1000$ $W_R = (GSM \times B \times L)/1000$

63. The formula for calculating the ink consumption (kg) for a print job

Pasting area per book in m²(A), no. of books (N), coverage power of paste per kg in m²(P) is given, the paste required (kg) for the job is calculated by

13

given, the paste required (kg) for the job is calculated by
$$(A \times N)/P \qquad (B) \quad (A)/(N \times P)$$

(C)
$$(A + N)/P$$
 (D) $(A)/(N + P)$

65.	-	-	hich directly chargeable ny day is recorded individ		ndire	etly (charg	geabl	e hour	s of v	vork	done by
	(A)	Office Wor	k Ticket	4	Da	ily D	ocke	t				
	(C)	Work Inst	ruction Ticket	(D)	Pro	ogres	s Sli	p				
				-	٠			•				
66.		ais level, an ead time	order is placed equal to t	he ord	ler qu	ıanti	ty, s	o tha	ıt it ar	rives	at th	e end of
	(A)	Maximum	Inventory Level	(B)	Mi	nimı	ım Ir	ivent	tory Le	vel		
	10	Reorder Le	vel	(D)	Zei	ro In	vent	ory L	evel			•
,												·•.
67	1% fo	or insurance age and loss	m is Rs. 40. Annual holdi , 2% allowance for obsole and Rs. 4 for miscellaneo 0 to place. What is the E0	scence	e, Rs.	2 fo	r bu	ildin	g overl	neads	, Rs.	1.50 for
	W	113 units		(B)	. 15	5 uni	ts					•
	(C)	163 units		(D)	166	3 uni	ts		,			
	i.							٠				
68.	Whic	h job will be	scheduled as the last in t	he giv	en da	ıta?						•
-			Book	1	2	3	4	5	6	٠		
-			Printing time (in hours)	30	120	50	20	90	110	•	÷	
			Binding time (in hours)	80	100	90	60	30	10		-	
	(A)	3		(B)	4				, ,			
	(C)	5		D	6		•				-	
	•	*						٠				
69 .	per d	-	efficiency rate for an equal speeds is 11,000 iph, max tes is ————.		•			_				
	(A)	24%		(3)	54	% %		٠				
	(C)	73%		(D)	83	%						
				•								•

AWMPT/17

	W	spring	(B)	cam	
	(C)	follower	(D)	limit switch	
				•	
1.	The n	naintenance carried systematically (to prever	it sudden failure/shu	tdown
	(A)	emergency maintenance	· ·	,	
	P	preventive maintenance			
	(C)	predictive maintenance			
	(D)	contract maintenance	•		
			•		•
					•
2.		oltage across a dark room safety ance in ohms?	light is	10 V, and the curre	nt is 5 A what is the
,	-	2.00	(B)	20.00	
	(C)	0.20	(D)	0.02	1.
	(-/				
					;
3	Çonta	cting element of a cam is			
	(<u>A</u>)	Disc	(B)	Groove	
	(C)	Roller	D	Follower	
-			•		
4.	Interf	erence pressure in a blanket to blar	iket pres	s in mm is	
	· (A)	1.00	(2)	0.20	
	(C)•	1.50	(D)	0.50	
			•		
	Instru	ment required for blanket fixing is		÷	
5.					
5.		Torque wrench	(B)	Wrench	
5.	(C)	Torque wrench Spanner	(B) (D)	Wrench Box spanner	

76. ———— is a common cause of streaks in dampening system.

- (A) Frozen cam followers
- (B) Broken gripper bars
- (C) Pneumatic control failure
- (P) Bearing failures

77. Open gears require — maintenance.

(A) Daily

Monthly

(C) Semi annual

(D) Annual

78. pH of neutral water is

(A) 1.0

(B) 6.0

7.0

(D) 14.0

79. In multi-colour printing register deviations beyond which value is unacceptable

(A) 1 micron

(B) 0.1 micron

(C) 0.4 micron

40.0 micron

80. Plate Preserving Gum Arabic solution should be in Baume

(A) 30-40

(B) 15-20

(C) 0-5

 $\mathcal{O}_{\mathcal{I}} = 6 - 10$

81. Thickness of film strip in mm, used to set the roller pressure is

(A) 0.05

(C) 0.15

(D) 0.20

0.10

(A)	Trade marking		0	Bench mar	king			
(C)	Reengineering	•	(D)	Marketing			•	
	• 4		. '			•	•	
-	covers the gu	idelines for	implemen	ting quality	managem	ent in se	ervice t	ype
bus	inesses.							*
(A)	ISO 9001	•	(B)	ISO 9002				
9	ISO 9003		(D)	ISO 9004			10 to	
				,		·		
	encompasses	those opera	tional tec	hniques and	activities	used to	fulfill	the
req	uirements for quality.							
4	Quality Control					,		
(B)	Quality Assurance				•			
(C)	Total Quality Manag	gement				•		:
(D)	Statistical Process C	ontrol						
TEC	stands for			,	-			
		f (1	1:		• .			
(A)	Indian Organization				•			
(B)	Italian Organization			•				
9	International Organ	ization for St	andardiza	tion			•	
(D)	Islamic Organization	ı for Standar	dization					

Six Sigma (B) ISO 9000

17

(C) 5 S

(B) ISO 9000(D) JIT

5 S (D)

87. Equipment downtime loss can be found out by using — formula

(A) $EA = T_{\vec{D}}/T_{O} \times 100$

(B) $EA = T_{PO} \times T_D/100$

 $EA = T_0/T_{PO} \times 100$

(D) $EA = T_O \times 100/T_{PO}$

88.		——— is the metal used	for producin	ıg digi	tal imaging by	laser eng	raving for	gravure			
	print	ting.					.*	•			
	(A)	Copper		(B)	Chromium	٠		ı			
	Ø	Zinc		(D)	Nickel	•					
		•					-				
•	~										
89.	,	ll computer to print system post script format into a bit									
	(A)	Image file		(B)	Digital data	•					
-	VO	Raster image processor		(D)	CIP3	,					
	·					•					
	•		•					. •			
90.	In computer to plate systems, digitally controlled imaging systems create the printing image										
		on the printing pla	ate.								
	(A)	dot per dot		(B)	pixel per dot						
	(0)	pixel per pixel		(D)	dot per pixel						
			·								
01	36.4.	.1		L'. OT	N	- 1	,				
91.	Meta	Metal powder are used as raw material in this 3D printing technology									
		Selective laser sintering									
	(B)	Fused deposition moldin	.g	•	-	•	•				
	(C)	Electron beam melting	: :								
	(D)	Stereo lithography		•							
						•					
	•										
92.	evne	—— oscillate along the way of the work of the movem			and perforate	two rows	of stamps	running			
	Sylic		ent of the we	÷U.							
		Comb perforators	·								
• .	(B)	Grinding perforators		-							
	(C)	Slitters	•		•						
	(D)	Stroke perforators									
		•	•	·.							

93.	The i	nvisible image present on the imag	e carrier	before d	eveloping	is called as	
	(A)	embedded image			·	•	
	0	latent image		•			•
	· (C)	encoded image					· . ·
	(D)	hidden image					
	-						•
94.	The i	input resolution is expressed as		-	•		
	4	pixels per inch		٠,	*		•
	(B)	dots per inch					
	(C)	lines per inch					
	(D)	screen frequency			•		•
95.		file format has a main file w	ith a pre	-view im	age in low	resolution :	and individual
	files	containing high resolution data.	•				
	(A)	TIFF	,				
	(B)	JDF			٠.		
	(0)	EPS			•	•	
	(D)	JPEG		. •			•
			•			*	
96.	. <u></u>	layer of the waterless offset	plate act	s as the	non image	area	1
50.	(A)	Aluminum base layer	P				
	(B)	Photopolymer layer					•
	(E)	Silicone layer				•	•
	O /	Polymer layer					
	(D)	rolymer layer				•	
97.	The	expansion for MICR in security prin					· ·
	W	Magnetic Ink Character Recognit					
	(B)	Magnetic Image Character Recog	nition				
	(C)	Magnetic Ink Color Recognition			•		
٠	(D)	Magnetic Image Color Recognition	n		×.		

98.	The process used to transfer a coloured layer of wax or thermoplastic material from a boon to a substrate using heat										
		Thermal printing									
	(B)	Continuous ink jet printing					•				
	(C)	Drop on demand	• .								
	(D)	Phase change ink jet printers			•						
	(D)	i nase change mk jet primters				•					
99.	The s	software "Illustrator" allows you	ı ta								
00.	(A)	Create spreadsheets									
					•						
	(B)	Edit photographs									
	(C)	Only draw in straight lines			٠						
		Create your own illustrations		•	. 		•				
	•	<u>-</u>	•			• •					
100.	origir	process of adjusting the color in nal image, or to compensate for e original image				-					
	(A)	Color theory									
	(B)	Color matching	•								
	(C)	Color proofing	•			•					
		Colour correction		:							
101.		process in which the least domin ck in areas where yellow, mage	-			ith an appropi	riate value				
	(A)	Unsharp masking	•	•	•		,				
	(B)	Retouching	•		٠,		•				
	(C)	Under color removal									
	D	Gray component replacement		•		. •					
102.	The li	ightest or whitest parts in a pho	tograph				•				
	(A)	Shadow		Highli	ght		•				
	(C)	Gray	(D)) Middle	tone						
•		•									

103.	Half	sheet work method used	for printing b	ook w	ork is also kn	own as	
	-04	Work and turn					
	(B)	Folio	•				
•	(C)	Imposition				•	4
	(D)	Layout					
			4		• •		
104.	Whit	te space on the outer edge	of the book p	age		`	
	(A)	Head		(B)	Foot		
	200	Fore edge	•	(D)	Backs	•	
	~ /	•		(-)			
105.	Tho	nyoooga of digitizing on in	anga into mosts	c			
100.		process of digitizing an in	nage mo rase	er iori	nat is caned	:	
	(A)	Editing					
	(B)	Scaling					
	0	Image scanning					
-	(D)	Analysing					
		•	•			. •	
106.			ent is used to	prod	luce proofs by	mapping w	hite point of the
		e to destination.				•	
	(A)	Absolute colorimetric	· ·	. ,	•		
	(2)	Relative colorimetric			•		
:	(C)	Perceptual					
	(D)	Saturation					
107.	The d	lata format that allows to	represent bo	th ras	ter and vector	image data	• • • • • • • • • • • • • • • • • • •
·	(A)	TIFF		(B)	JPEG		
,	9	$oldsymbol{\eta}_{ ext{PDF}}$		(D)	BMP		•
.08.	· · · · · · · · · · · · · · · · · · ·	process conve	rts screened de	ata in	to a continuou	ıs-tone file	
	(A)	Copydot			Descreening	•	
	(C)	Halftoning		(D)	Magnifying		•
	\ - /			1		4.0	

109.	The quality control aid that appears along with color bar and helps the press man to detect any irregularity in the ink spread									
	(A)	Plate sensitivity guide	e e	D	Star targets					
	(C)	Gray scale		(D) '	Stouffer wedge					
110.		electro deposition of an a								
	(A)	Electrochemical coating		(B)	Metallised coatin	g	. ,			
	401	Electroplating		(D)	Metal fusing					
111.		process of dissolving unev	enly a part	of the	surface of a meta	l using an	acid or other			
	(A)	Diffusing		(B)	Diluting	•				
	(C)	Thickening	• • .		Etching		**************************************			
112.	In so	creen stencils making by	5-star film	method	d,	is used as	an oxidizing			
	4	hydrogen peroxide		(B)	hydrogen chlorid	e				
	(C)	ammonium nitrate	•	(D)	zinc chloride		•			
113.	The	device that measures the	image area	perce	ntage at selected ,	area across	the printing			
	(A)	Polariscope		(B)	Image setter					
	(C)	Drum scanner			Plate scanner					
114.	The	common material used for	offset plate	graini	ng					
	(A)	charcoals		9	7 _{marbles}		•			
	(C)	wood chips		(D)	lime stones	•	•			
			•	-		•				

115.	Befor	Before etching the surface of the gravure/cylinder which is not to be etched is covered with								
•	(A)	Copper	(B)	UV						
	(0)	Asphaltum	(D)	Chloride						
			•• •							
116.	Sleev	ve is a plate used in ——	printing	process.						
	(A)	offset	4	flexo						
	(C)	screen	(D)	digital						
117.	Scun	nming occurs on press wl	hen ——— a	reas accept ink.						
	(A)	printing area	4	non-image area						
	(C)	image area	(D)	dampening area	•					
					•					
118.	The	most common offset plate	e metals used is							
	(A)	Silver		Aluminium						
	(C)	Magnesium	(D)	Iron						
	. ,									
119.	The	flexographic plate are a	ttached to the plate	e cylinder with doub	le sided adhesive tan					
110.	calle		nay be solid vinyl or							
	(A)	backing	(B)	paste						
	40	sticky back	(D)	gumming	· · · · · · · · · · · · · · · · · · ·					
120.	The	wavelength of thermal la	ser diode is							
	(A)	532 nm	(B)	630 nm						
	(C)	670 nm		830 nm						
	(-)									
121.	Δ thi	n coating of aluminium	oxide is created for a	offset plates by a proc	ess called					
121.	(A)	Galvanizing	(B)	Burnishing	·					
		Graining	(D)	1 Anodizing						
	(C)	Graming		THOMSING						

	syste				
		Ductor roller	(B)	Intermediate roller	
	(C)	Form roller	(D)	Fountain roller	
23.	Gear	drive for cylinders in quality offset	machine c	onsists of	
	W	Helical	(B)	Worm	
	(C)	Spur	(D)	Bewel	
24.	The	delivery assist device which helps to	counter ta	ail-end hook proble	n
÷	(A)	Suction slow-down rollers			
	(B)	Blow-downs			
	(C)	Skeleton wheels			
	(1)	Wedges			
25.	The	method of perfecting on a CIC web p	ress		
	(A)	Perfecting	(B)	Converting	.*
	VO)	Double ending	(D)	Imprinting	
÷					
26.	The	expansion for RTF in web offset			
	(A)	Roller-top-of-folder		. •	
	101	Roller-top-of-former			•
	(C)	Rider-top-of-former			
•	(D)	Rider-top-of-folder			
27.	The	device that aids the visual inspection	n of a mov	ing web as if in a fr	ozen state
	(A)	Magnifier		Stroboscope	•
		-	· ·	-	

24.

AWMPT/17

128.	The l	hardness for inking forme rollers shoul	- shore A scale.		
	(A)	10 – 20	(6)	25 – 35	
	(C)	35 – 45	(D)	45 – 55	
				•	
129.	In —	infeed system, the feed re	olls or	vacuum belts, drive	e the sheet against th
	stops	s on the impression cylinder.			
	(A)	swing arm	(B)	rotary drum	
	(2)	overfeed	(D)	oscillating	
			. *		•
130.	Grap	phic screen printing inks dry by			
	(A)	Oxidation	(B)	Polymerization	
	100	Solvent evaporation	(D)	UV curing	
131.	After	r exposure, gelatine films must be proce	essed :	in an oxidizing solut	ion of
	4	hydrogen peroxide	(B)	polyvinyl alcohol	
	(C)	polyvinyl acetate	(D)	chromate	
132.	In do	ouble twill weaving structure in screen	fabric	, each thread	
· •	(A)	travels under one and over two threa	ds		
. •	0	travels under two and over two threa	ıds	•	
	·(C)	travels under one and over one threa	d		
	(D)	travels under one and over three thre	eads		
133.	On-c	contact printing in screen printing proc	ess is	done with	
,	W	underside of the screen in full contac			
	(B)	upperside of the screen in full contac			
	(C)	underside of the screen in moderate			

underside of the screen without contact with the substrate

(D)

134.		is a term used to describ	e the jagger edges	which are some	times produced in
	prin	ts that are made from direct stencil	S.		
	. 4	Saw toothing			
	(B)	Scroing	÷		•
	(C)	Degreasing			
	(D)	None of the above			
•			,		-
135.		printing process that produces an i		ng individual dro	ops of ink from an
	(A)	magnetography		•	
	(B)	electrophotography			
	401	inkjet printing	•		
	(D)	dye sublimation		•	•
•	•		•		
		ter and if the distance is increased 16 minutes	_	late the new exp	-
	(C)	5 minutes	(D) 12 min	utes	
		·			
137.	·	——— occurs when the centre o	f mass of a roller	does not match t	he rotational axis
	impo	sed by its supporting bearings.			
:	W	Imbalance			
	(B)	Balance			
,	(C)	Cylinder wear		•	
	(D)	Roller wear		1	
				•	
	T	1.0	ur verv close regis	ter work, the al	
138.		creen printing, screens are used fo ss the screen would be between	i very close regis		lowable tolerance
138.		•	(B) > 5 N/ci		lowable tolerance

139.	type of adhesive is used in perfect binding.							
	(A)	Gum		(B)	Paste			
	101	Hotmelt	• •	(D)	Glue			
	· •		esta de la companya d					
140.		is best suite	d for cutting a	specifi	c pattern on paper or board.			
	(A)	Single knife guillotine		(B)	Three knife trimmer			
	6	Die cutter		(D)	Scoring knife			
141.	The p	process of checking the	gathered section	ns of a	book for correctness			
	· Cop	Collating		(B)	Gathering			
	(C)	Collecting		(D)	Checking			
142.		part of the w	vire stitching n	nachin	e closes the stitch.			
	(A)	Wire spool		(B)	Bender			
	(C)	Saddle		0	Clenchers			
	· .							
143.	The t	three edges decorated in	edge decorati	on of a	book are			
•	(A)	Head, spine, tail		(B)	Head, spine, fore edge			
	(C)	Spine, fore edge, tail		D	Head, fore edge, tail			
	•		•					
144.	In —	type of in	dex cutting, ha	lf-moo	n cuts are made into the book.			
	(A)	Step indexing		(B)	Cut-through indexing			
	(0)	Thumb indexing		(D)	Vowel indexing			
				•				
145.	In bo	ook binding, the knife fo	ld principle in	folding	; is known as			
	(A)	Buckle fold		(B)	Single fold			
	(C)	Double fold	•	SON SON	Right angle fold			

(1)	folded to print	(B)	folded to paper
(C)	right angle fold	(D)	parallel fold
<u> </u>	is the proces	ss of stabilization	of the adhesive binding through sur
pres	ssing after the case in oper		
(A)	Jacketing		Smashing
(C)	Inserting	(D)	Casing
	•		
	is used in the	cutting machine t	to prevent the knife from becoming dull
evei	n break.		
(A)	Joggers	(B)	Lifters
(C)	Backgauge		Cutting stick
		· .	
rear	m are cut shorter than the	lower layer. This i	
		=	is termed as
rear	m are cut shorter than the	lower layer. This i	is termed as
rear (A)	m are cut shorter than the Under cut	lower layer. This i	is termed as Dip shear cut
rear (A) (C)	m are cut shorter than the Under cut Oblique cut	lower layer. This i (B)	is termed as Dip shear cut
rear (A) (C)	m are cut shorter than the Under cut Oblique cut	lower layer. This i (B)	Dip shear cut Over cut
rear (A) (C) Join	m are cut shorter than the Under cut Oblique cut ning book signatures toget	lower layer. This i (B)	Dip shear cut Over cut
rear (A) (C) Join	m are cut shorter than the Under cut Oblique cut ning book signatures toget	lower layer. This i (B)	Dip shear cut Over cut
rear (A) (C) Join (A)	m are cut shorter than the Under cut Oblique cut ning book signatures togeth Side sewing Saddle sewing	lower layer. This i (B)	Dip shear cut Over cut
rear (A) (C) Join (A) (P) (C)	under cut Under cut Oblique cut Side sewing Saddle sewing Mechanical binding	lower layer. This i (B)	Dip shear cut Over cut
rear (A) (C) Join (A) (C) (D)	on are cut shorter than the Under cut Oblique cut Side sewing Saddle sewing Mechanical binding Loose leaf binding	lower layer. This i	Dip shear cut Over cut
rear (A) (C) Join (A) (C) (D)	Under cut Oblique cut Side sewing Saddle sewing Mechanical binding Loose leaf binding inding method that uses w	lower layer. This i	Dip shear cut Over cut thread through the center fold
Join (A) (C) (D) A bi shee	Under cut Oblique cut Side sewing Saddle sewing Mechanical binding Loose leaf binding inding method that uses wets of paper together	lower layer. This i	Dip shear cut Over cut thread through the center fold
rear (A) (C) Join (A) (C) (D) A bit sheet (A)	on are cut shorter than the Under cut Oblique cut ining book signatures togeth Side sewing Saddle sewing Mechanical binding Loose leaf binding inding method that uses weets of paper together Loose leaf binding	lower layer. This i	Dip shear cut Over cut thread through the center fold

152.	The radiation curing which does not require initiator							
	(A)	Ultraviolet	(B)	Laser				
	(C)	IR		Electron Beam				
	•							
153.	Pape	er of ——— gsm is defined as	paper boar	rd or board by ISO.				
	(A)	below 200 gsm	(B)	150 gsm				
	(C)	120 gsm	01	over 200 gsm				
154.	The 1	property of printing ink that descr	ribes the de	gree of its resistance to flow				
	(40	viscosity	(B)	flowablity				
	(C)	density	(D)	thixotropy				
155.		are used to protect the page	kaged prod	ucts during shipping.				
•	(A).	Paper and board						
	(B)	Plastic materials						
	(C)	Wood materials						
		Cushioning materials						
	•							
156.	The p	ourpose of tamper evident closure	in packagin	ıg				
	4	Security purpose						
	(B)	Air lock purpose	-					
	(C)	Child resistant						
	(D)	Spill proof						
157.	When	the temperature changes, the v	iscosity of	all inks changes but paste inks also lose				
÷	viscos	_	ed or other	wise sheard. This characteristic is called				
	(A)	——? Length) Mhirotaan				
·			(D)	Thixotropy				
	(C)	Tack	· (D)	Misting				

158.	results from light being absorbed and diffused as it passes from air to fiber and								
	back a	air in paper.							
	W/A	Opacity	. (1	B)	Gloss				
	(C)	Haze	. ()	D)	Transferency				
1					•				
159.	Most	of the white papers hav	e the brightness	s rai	nge between ———	— depending upon			
	the ty	pe and grade.				•			
	(A)	70 – 90	(B)	80 – 90				
	C	60 – 90	(D)	90 – 100				
			,	·		••			
160.	MIS	stands for	-						
200.	(A)	Member Identification	System		·				
	(12)	Management Informati			•				
	(C)	Marketing Identification			·				
		Management Improven			•				
	(D)	Management improven	icht bystem			•			
161.	Split	ting a product workflow i	into two channel	8					
	(A)	Workflow preparation			•				
		Streaming							
	(C)	Combined workflow							
	(D)	Joined workflow	•						
					•				
162.	The	record in which the recei	pts and issues of	fma	terials, tools and equi	oments are recorded			
	(A)	Delivery Sheet		(B)	Proforma	ž.			
•	(C)	Invoice	•		Stock Record				
•									
163.	Aato	al expenses (liabilities) i	ncurred in a pro	duct	ion job is called as				
109.		Sales	indiana in a bro		Cost	•			
	(A)		•	(D)	Profit				
	(C)	Price		(Δ)		·			

164.	A per	son who sells printing goods and serv	vices to	customers and print buyers
	4	Printing broker		
	(B)	Printing sales reps.		
	(C)	Customer service reps.		
	(D) .	Printing consultants	•	
165 .	A tecl	hnique of assessing the sale price of a	i job or	a service scientifically
	(A)	Costing	0)	Estimating
	(C)	Cost control	(D)	Budgetory control
166.	СМН	R of the typesetting machine is Rs.	145 an	d 24 pages can be typeset in 8 hour shift.
,		the basic rate per page		
	(A)	Rs. 52.28	(B)	Rs. 50.12
	(C) ₂	Rs. 54.32	DY	Rs. 48. 33
167.		s fixed based on specified quantum of action of a job	work ii	respective of the time actually spent in the
	4	Work rate system	(B)	Time rate system
	(C)	Direct Departmental Cost	(D)	Unit Cost
168.		machine is expected to run for 300 o hours the machine is utilized in a ye		ar, 8 hours/day at 75% of its capacity. The
	(A)	1200	(B)	1440
	C	1800	(D)	1680
169.	Tinit	cost of a book can be calculated by		
105.	Offic	Total Fixed Cost + Total Variable	Cost)/N	of copies produced
	(P)			
•	(B)	(Total Fixed Cost - Total Variable C	, .	
	(C)	(Total Fixed Cost + Total Variable Cost + To		
	(D)	(Total Fixed Cost – Total Variable Cost – To	Jost) × ∫	No.of copies produced

 \leftarrow

170.		——— is a cause	e for the p	ress slur	and doub	oling.			•
	(A)	Delivery fans n	ot workin	g		•			•
	B	Press cylinders	gears are	eccentri	C 1	•	9		
	(C)	Excessive heat	generatio	n in macl	nine fram	ie .			<i>:</i>
	(D)	Dampening sys	tem gear	box not l	ubricated				•
171.		is one of	the most	accurate	e, stronge	est and quietes	st gear used i	n prii	nting m/c
	today	•							·
		Helical gear	* · ·		(B)	Spur gear			
	(C)	Rack and Pinio	n		(D)	Bevel gears			
						•			
172.	The n	nachine element	that eithe	er rotates	or slides	to produce a p	rescribed mot	ion.	
	V	Cam			(B)	Gear			
	(C)	Spring			(D)	Bearing			
					ŕ				
173.		——— is one of	the positiv	e drive t	ype belts	and has no slip	opage.		
	44	Timing belt	•	,	(B)	Rope belt		æ	
	(C)	Flat belt			(D)	V – belt			
	• .	•			á	•			
174.	The s	ystem that does	not use ar	ny belt, cl	hain and	gear in its driv	re	. ,	•
	(A)	Gear drive							
	(B)	Belt drive							
	0	Direct drive ted	hnology				•		
	(D)	Chain drive				e e e			
	` '							,	
175.	Maint	tenance activitie	s nerform	ed hetwe	en two ov	erhauling is ca	lled as	•	
110.	aiii	Repair cycle	o portorm	CA DOUNG	(B)	Checklist	WWW UD		
	(0)	•						•	
•	(C)	History card			(D)	Paint mark			

176.	Mair	ntenance done before the parts gettin	g worn-out is			
. ,	(A)	Mechanical maintenance		· ·		
	(B)	Electrical maintenance		4.	•	· · ·
	6	Predictive maintenance		· ·		
	(D)	Corrective maintenance		•	,	
177.		are classified as the lost tin	ne and materia	le ofter	the makerea	dy ie complete
111.	and j	production sheets are being counted.	ic and materia	is alver	me makerea	uy is complete
	W.	Startup losses	C 1			•
	(B)	Makeready losses		٠		•
	(C)	Equipment failure losses	·			
	(D)	Speed losses	•			
	` ,				•	
178.		breakdowns result in smal	l amounts of l	oet time	hut are ve	ry fraguent ir
170.	occui	rrence.	i amounts of i		Dut are ver	y nequent n
	·(A)	Sporadic	Chron	nic		
	(C)	Massive	(D) Errati	ic	•	
			• • • • • • • • • • • • • • • • • • • •			
170	T.,	ususin of husban on domo	mad minan af ann	inmant i	In doma to man	****
179.	In — opera	———, repair of broken or damagating condition.	ged piece of equ	пршепс	s done w res	wre necessary
		Restoration Maintenance				•
	(B)	Preventive Maintenance				
	(C)	Predictive Maintenance				
	(D)	Preplanned Maintenance	•			1
•	(D)	1 replanned Mannenance				
				<i>;</i>	•	
180.	-	y maintenance activities are entered	in ()	•	•	
	(A)	Job Planning Record		• .		
	(B)	Maintenance Request Record		v	•	
	4	Equipment Operation and Mainten	ance Record			
	(D)	Process Control Record				

181.	_	uality control,	, -			ed for	all	the	materia	ls and
	activ	ities when the job has n	ot been done rig	th th	e first time.					•
	(A)	Prevention cost				•		-		
	(B)	Inspection and apprai	isal cost							
	4	Internal failure cost					٠			
	(D)	External failure cost				•				
182.	Find	the median of the giver	n Data							
	592,	429, 593, 421, 583, 430,	408, 557, 575, 4	137						
	(A)	429	ı	(3)	497					
	(C)	437		(D)	575				e e	
183.	The c	control chart for variabl	le is							
	4	μ chart		(B)	p chart					
	(C)	c chart		(D)	fchart		-			
184.	ISO :	14000 is a generic stand	lard primarily co	oncer	ned with			÷		
	(A)	Production					-	•		·
	(B)	Servicing			•		•			
	401	Environmental								
	(D)	Hospital							,	* .
185.	In SI	PC, ——— are tool	ls which allow fo	r eas	y collection a	nd an	alysi	s of c	lata.	
•	(A)	Flowcharts								-
	0	Checksheets and chec	klists		٠.					
	(C)	Scatter diagram			•					·.
	(D)	Run control charts								

186.		is one of the strategy for custom	ier re	tention.	
	(A)	Conducting Business Survey			
. ·	(B)	Good rapport with clients			
	4	Good rapport with Individual custome	er		
	(D)	Good rapport with Employee	•		
187.	Men,	machine, money, method and material	s of n	nanagement is called as	
	(A)	5 S	(B)	SPC	
	VOT	5 M	(D)	Six Sigma	
•			·		
188.	Expa	nd ICC profile	٠		
• 1	4	International Color Consortium Profil	le		
	(B)	International Color Consumers			
	(C)	International Color Chart			
	(D)	International Common Color Profile			
189.		——— instrument that analyzes a colo	r's hu	e, saturation and lightness.	
	45	Colorimeter	(B)	Densitometer	
	(C)	Durometer	(D)	Luxmeter	
190.		problem is called "snow flaking"	' in G	ravure printing.	
	(A)	Scumming	(B)	Doctor blade deflection	
•	(0)	Missing dots	(D)	Non impression	
191.	The e	xpansion for XML			
•	(A).	Xerox Machine Language			
	(B)	Xerox Markup Language	•		
	405	Extensible Markup Language			
	(D)	Extensible Machine Language			

- 192. The very fine lines of mathematically generated pattern printed on the background of a currency note is called

 (A) Pantograph

 (B) Code safe
 - (C) Warning bands
 - Guilloches
- 193. The expansion for D2T2 which is a shortened term that physically and chemically defines thermal sublimation
 - (A) Direct diffusion thermal transfer
 - (B) Direct digital thermal transfer
 - Dye diffusion thermal transfer
 - (D) Direct dye thermal transfer
- 194. The inkjet technology in which the ink drop is generated only if the print image requires it.
 - (A) Continuous ink jet
 - Drop on demand
 - (C) Binary deflection continuous jet
 - (D) Multi-deflection continuous jet
- 195. OPC Means
 - (A) Optical Printing Cylinder
 - (B) Organic Printing Cylinder
 - (C) Optical Photo Conductor
 - Organic Photo Conductor

196.	ST	L file format in 3D printing refers to		a.		*		
	(A)	Standard Template Library						
•	(B)	Standard Tessellation Language	•					
	(0)	Software Tool Library						
	(D)	Stereo Lithography						
							. •	
197.		nis method, multicolored image on th nting plate and then transferred ont					transferre	d onto
	(A)	Offset method						
	(B)	Waterless offset method			·			·
	VO	Orlof method				. ,		
	(D)	Blanket to blanket method		-				
			•		0.00		•	
198.		genuineness of bank notes can easily the ———— in the paper and ink		ced usin	g the ap	propriate	illuminat	ion to
	(A) ·	Microline	•					
	(D)	Fluorescent particles		٠				
	(C)	Fibre nature	•			•		-
	(D)	None of the above						,
				•				
199.	The 1	meaning of the Greek word "gyro" in	Gyricon e	-paper is	3			٠.
	(A)	Oscillate	,s. y	Park and		·	-	
-	P	Rotate			•			
	(C)	Jump		•				
	(D)	Run					1 .	
	. ,						•	
200.		recognizable image or pattern that a viewed with a light from behind the		ghter or	darker	than sur	rounding	paper
	(A)	Guilloches	•		•			
	(B)	Warning bands						
	(C)	High resolution graphics						
	Dy	Watermarks						•
	•						· ·	•

SPACE FOR ROUGH WORK

AWMPT/17 38

SPACE FOR ROUGH WORK

AWMPT/17 [Turn over