## NZ POOL INDUSTRY ASSOCIATION Inc DIPLOMA COURSE 2021 TEST PAPER

**Dip.Pool Tech** 

New Zealand Pool Industry Association Inc, PO Box 170769 Greenlane 1546

- email executive@poolguild.org.nz

PAPER 11 TEST TROUBLE SHOOTING	Your Name Don't write in boxes
CLOUDY WATER	
Possible causes: 1	
COLOURED WATER (two po	
3. Colouration may be caused by	(a)
4 Metal ions.	(b)
Most coloured metal ions are appearance to the water.	insoluble in alkaline and well-chlorinated water and they impart a green, milky
The water should be	
5	immediately as the green haze will
6	the interior of the pool
7	of the contaminates will accelerate the removal.
8. The contamination by meta	al ions can be prevented by: (four points)
a	
b	
c. Do not use	
d. Prevent	dropping into the pool.
9. Tannins (Two points)	
This type of colouration is fou	nd in water which is drawn from (a)
Also it may be leached out from the time	ber of new hot tubs.
Remedy: Tannins are destroyed by:	
10. Algae	
Algae are easily destroyed by	which common pool chemical?

## STAINING OF THE WALLS AND FLOOR

Possible cause: Metal ions like iron, copper, manganese, silver etc. tannins and pigments from plants, or using a foul or uncleam water source such as a dam, river, well etc.

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11.	Prevention	n: the pH of the po	ool water (which sho	uld always be	greater than 7.0	0)	
	(a	) Could	the ma	ake-up water in	nstead of adding	it directly into the	ne pool.
	(b	) Could	leaves	, twigs, mud &	detritus as sooi	n as possible.	
12.	How to rer	move metal ion sta	ains.				
	In pools wit	th non-reactive fin	ish. (Eight points)				
	a						
	b		respective services				
	c						
	d					<u> </u>	
	e						
	f						
			initi a katikisa				
	h						
13.	•	ith reactive finish:					
	1						
The tr	eatment carı	ried out (above) is	not satisfactory in t	hese pools	·		
	(a) If the	stain is in small sp	oots they may be rer	moved by			
	(b) To rer	nove larger stains	the water has to be	)	and the stain	removed by	
	_			9			e grande de
	Some	methods leave a	very rough finish an	nd should be us	sed as a last res	sort	
		used care should ver parts of the wa	be taken to remove	the excess liq	uid as soon as բ	possible to preve	ent the staining of
14.	Removal	of organic stains. (	(Three points)				
	] (a) _		destroys the org	anic stains.			
	If necessa	ary (b)		_ may be appl	ied		
			mall amounts of (c)			on the stain	
		ıld be taken not to NOT add solid ch	bleach the interior, lorine to the pool.	especially the	coloured or prir	nted vinyl lining.	If in doubt about

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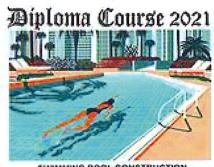
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New Zea	aland Pool Industry Association Inc, PO Box 170769 Greenlane 1546	<ul><li>email executive@po</li></ul>	olguild.org.
15.	BLACK SPOT ALGAE		
	Small black spots can be removed relatively easily by		
16. cemer	Black spot algae found in concrete pools with marblesheen or other at-type finishes may be removed by		
	(a)		
	(b)		
	(c)		
	(d)		
	(e)		
(Five p	points)		
17	EYE IRRITATION, STRONG CHLORINE ODOUR (Three points)		
These	are the result of insufficient chlorination and the presence of chloramines.		
	Remedy:		
a			
b			
			•
18	RAPID CONSUMPTION OF CHLORINE (Three points)		
Chlorin can be	e (and bromine) is rapidly destroyed by ultraviolet rays of the sun, by heat and orgar minimized although it cannot be avoided altogether.	าic contaminates.	The loss
	Remedy:		
 a.			
b.			
C.			
19	GREEN ALGAE ON THE WALLS (Three points)		
It is due	e to insufficient chlorination and the lack of algaecides.		
	Remedy:		
(a)			
(b)			
(0)			

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SYMMING POOL CONSTRUCTION TECHNOLOGY & MAINTENANCE Dip Pool Tech (HZPIA)