NZ POOL INDUSTRY ASSOCIATION INCORPORATED

DIPLOMA COURSE 2022 TEST PAPER New Zealand Master Pool Builders Inc. PO Box 17069 Greenlane 1546 Dip.Pool Tech
- email diploma@poolguild.org.nz

PAPER 4 TEST SWIMMING POOL	_ EQUIPMENT	Your Name Don't write in the score b	ooxes
1.	WHY ARE FILTERS REQUIRED?		
			_
2.	HOW DO FILTERS WORK?		
3.	WHAT ARE THE THREE BASIC TYPES OF F	FILTERS?	
4.	DESCRIBE EACH TYPE OF FILTER IN LESS	THAN 50 WORDS	
1			
2			
3			

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	5. DESCRIBE FILTRATION EFFICIENCY LEVELS FOR THE MAIN TYPES
	6. WHAT SIZE (IN MICRONS) ARE THESE TYPICAL CONTAMINANTS?
Bacteria	Microns
Algae Cells	Microns
Algae Spores	Microns
Virus Cells	Microns
	7. WHAT SIZE (IN MICRONS) ARE THE FOLLOWING FILTER MEDIA?
Filter Sand	Microns
DE Power	Microns
Cartridge	Microns
	8. WHAT PERCENTAGE OF A METRE IS A MICRON?
	%
	9. WHAT IS A FLOCCULANT?
	10. WHEN IS A FLOCCULENT TREATMENT REQUIRED?

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	11. WHAT PROCESS IS FOLLOWED TO CORRECTLY USE FLOCCULANT IN A POOL
	12. WHAT IS THE DESIRED RESULT FROM USING FLOCCULANT?
	13. HOW DO YOU RESTORE PROPER FILTER FUNCTION TO A BLOCKED SAND FILTER?
	14. WHAT OPTIONS ARE THERE TO REDUCE WASTE WATER USEAGE
1.0H X 1.0W	15. WHAT IS THE RECOMMENDED RATIO (HEIGHT TO WIDTH) FOR A SAND FILTER 1.5H X 1.0W 1.0H X 2.0W 1.5H X 2.0W (CIRCLE ONE)
((((((((((((((((((((16. DESCRIBE THE FOUR MAIN FEATURES IN THIS VIEW OF A TYPICAL SAND FILTER
	1
4	3.
	4

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17. WHY DOES THE pH LEVEL AFFECT THE OPERATION OF A FILTER?
18. WHAT ARE CARTRIDGE FILTERS?
19. SHOULD A CARTRIDGE FILTER BE BACKWASHED?YESNO WHY
20. WHAT IS THE MAXIMUM VOLUME OF WATER FOR A FIVE Sq M CARTRIDGE?
21. HOW DOES A CARTRIDGE "VACUUM FILTER SYSTEM" WORK?
22. WHAT IS A DIATOMACEOUS EARTH (DE) FILTER?
23. CAN DE BE USED IN A SAND FILTER, AND IF SO WHAT FOR?

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	24. WHAT IS THE RECOMMENDED FILTRATION CYCLE FOR SAN	ID FILTERS?
	25. HOW DO YOU CALCULATE THE MINIMUM FILTRATION CYCL	LE FOR YOUR POOL
Step 1	<u> </u>	
Step 2		
Step 3		
	26. THE INSTALLATION OF THE FILTER	
WHAT ARE	THE RECOMMENDED STEPS WHEN INSTALLING A FILTER?	
(1)	·	
(2)		
(3)		
(4)		
(5)		
(6)		
(7)		
(8)		
(9)		
(10)		
(11)		
(12)		
(13)		
(14)		
(15)		
(16)		

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	27. DESCRIBE THE INSTALLATION & PURPOSE OF A BACKWASH LINE	
	·	
	28. WHAT IF THERE IS NO COUNCIL SEPTIC SEWER CONNECTION?	
	29. ARE THERE RULES ON DISCHARGING BACKWASH WATER ONTO TH	E GROUND?
	30. WHAT FILTER MAINTENANCE IS REQUIRED?	
(1)	Manufacturer's Instructions	
(2)	Backwash Valve (MPV)	
(3)	Air Leaks	
(4)	Pump and Motor Bearings	
	31. HOW MANY TYPES OF AUTOMATIC CHLORINATORS ARE THERE?	

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32. DESCRIBE BRIEFLY THE FOLLOWING:
FLOATING DISPENSERS
METERINO DEL VIGEO
METERING DEVICES
ELECTROLYTIC CHLORINATORS
IONIC STERILIZERS
33. WHAT IS THE SECOND CHEMICAL PRODUCED BY SALINE ELECTROLYSIS? SODIUM CHLORIDE AND
34. HOW DOES THIS CHEMICAL AFFECT THE POOL WATER?
35. WHAT IS "VOLTAGE LEAK"?
36. DESCRIBE AUTOMATIC pH CONTROLLERS



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