

<u>Vidyalankar Foundation Test (Std. IX) : Sample Questions</u>

Section I : Mathematics				
1.	By what least number should 648 be multip (A) 3 (B) 6	olied to get a perfect cu	be? (D)8	
2.	If $496 \times 492 = x^2 - 4$, where $(x > 0)$, then x (A) 495 (B) 494	= (C) 493	(D)496	
Section II : Science (Physics, Chemistry & Biology)				
3.	A piece of ornament weighs 300 gm in air. is 2.5 gm/cc, what will be its weight in wate (A) 180 gm (B) 360 gm		naterial it is made up of (D) 250 gm	
4.	If the distance between two successive of between two successive troughs is (A) 24 cm (B) 6 cm	crests of a wave is 12 (C) 12 cm	2 cm, then the distance (D) 4 cm	
5.	Which pair of substances shown below are (A) ${}^{12}_{6}$ C and ${}^{14}_{6}$ C (C) diamond and graphite	most likely isotopes? (B) Carbon dioxide a (D) C ₂ H ₄ and C ₃ H ₆	and carbon monoxide	
6.	The pH of three solutions A, B, C is 6, 4, 8 receptivity which of the following is the correct option? (A) $A > B > C$ decreasing acidic strength (B) $C > B > A$ increasing acidic strength (C) $B > A > C$ is decreasing acidic strength (D) $C > B > A$ decreasing acidic strength			
7.	Read the following statements about bacteria. I. Bacteria are the unicellular organisms. II. They have cell walls with defined nucleus. III. They reproduce by binary fission and can grow very rapidly in favourable conditions. IV. They can also reproduce sexually by exchanging genetic information through DNA or RNA. Which of the above statement(s) is/are incorrect? (A) I and IV (B) Only II (C) II and IV (D) Only IV			
8.	Non-infectious disease is (A) Malaria (B) Cancer	(C) Common cold	(D) Influenza	
Section III : Mental Ability Test (MAT)				
9. The number of P's in the following series which are immediately followed by B as well as immediately preceded by Z is:				
PMBZPNPPBZPBPZBPPZPB				
	(A) 5 (B) 6	(C) 4	(D)3	
10	10. The number of numbers from 1 to 200 which are divisible by 10 but not divisible by 30 is: (A) 13 (B) 15 (C) 14 (D) 20			