

Name :

M.M.: 23

Time : 1 hour

Date: 16/4/2018

- Q1.** Why does the skin of your finger shrink when you wash clothes for a long time? **1**
- Q2.** Who discovered cells, and how? **1**
- Q3.** Can you name the two organelles we have studied that contain their own genetic material? **1**
- Q4.** Why are lysosomes known as 'suicide-bags of a cell? **1**
- Q5.** Define nucleoid. **1**
- Q6.** A cell will swell up if placed **1**
- (a) in isotonic solution. (b) in hypotonic solution.
(c) in hypertonic solution. (d) in concentrated sugar solution
- Q7.** Who gave the statement that cells arise from pre-existing cells? **1**
- (a) Virchow (b) Haeckel (c) Hooke (d) Schleiden and Schwann
- Q8.** 1 μm is equivalent to **1**
- (a) 10^{-6}m (b) 10^{-10}m (c) 10^{-9}m (d) 10^{-3}m
- Q9.** If we sprinkle salt on cucumber slices after sometime it releases water. What mechanism is responsible for this? **1**
- Q10.** Living cells were discovered by **1**
- (a) Purkinje (b) Robert Hooke (c) Leeuwenhoek (d) Robert Brown
- Q11.** Why is the cell called the structural and functional unit of life? **2**
- Q12.** What would happen if the plasma membrane ruptures or breaks down? **2**
- Q13.** How is a prokaryotic cell different from a eukaryotic cell? **3**
- Q14.** How does an *Amoeba* obtain its food? **3**
- Q15.** How do substances like CO_2 and water move in and out of the cell? Discuss. **3**