

**Avinashilingam Institute for Home Science and Higher Education for Women  
Coimbatore-641043.**

**Master's Degree Examination -November 2017**

**I Semester**

**Class : IPG  
Major : Biotechnology**

**Time: 3 hours  
Max. Marks: 60**

**17MBTC02 CELL BIOLOGY AND MICROBIOLOGY**

**Part -A**

**10 x 1/2 = 5**

**Choose the correct answer**

1. The term cell was coined by  
a. Aristotle                      b. Leeuwenhoek                      c. Malphigi                      d. Robert Hooke
2. The organelle that controls all the activities of the cell is  
a. mitochondria                      b. nucleus                      c. golgi bodies                      d. endoplasmic reticulum
3. The mass of lipids that constitute the cell membrane is  
a. 1-2%                      b. 5-7%                      c. 0.5-1%                      d. 25-80%
4. The cells in tissues are assembled together and remain in contact with the help of  
a. pili                      b. flagella                      c. extracellular matrix                      d. blood
5. The phase in the cell cycle that involves mitotic division is  
a. G1                      b. S                      c. G2                      d. M
6. The phenomenon of apoptosis has been extensively studied in  
a. E.coli                      b. C.elegans                      c. P.aeruginosa                      d. S.aureus
7. The structures that represent the borderline between living and nonliving things is  
a. bacteria                      b. fungi                      c. algae                      d. virus
8. The pH range for bacterial growth media is  
a. 1.0-2.0                      b. 6.5-7.5                      c. 3.8-5.6                      d. 10-12
9. Organisms that do not use oxygen to obtain energy are called  
a. protozoa                      b. aerobes                      c. anaerobes                      d. parasites
10. One of the most important systemic responses to microbial invasion is  
a. polyphagia                      b. polyuria                      c. vomiting                      d. fever

