ST. JOSEPH'S COLLEGE (AUTONOMOUS), BANGALORE -27 MID SEMESTER TEST - AUGUST 2016 M.Sc. MICROBIOLOGY - III SEMESTER MBDE 9316- Food Microbiology

Time: 1hr

Max Marks: 20

I. Answer any **Three** of the following

3x 2 = 6

- 1.Expand and define PSE meat.
- 2. Briefly mention how discolouration is brought about in spoilt meat.
- 3. Define water activity.
- 4. What are Oxygen scavenging systems.
- 5. Differentiate between field and storage fungi in the spoilage of grains.
- II. Answer any Two of the following

2x 5 = 10

- 6. Explain the role of Psychrotrophic bacteria in milk.
- 7. What are the various stages of canned food spoilage?.
- 8. Give two important characteristic features of Shigellosis. Explain virulence regulation in *Shigella sp.*
- III. Answer the following

1x4=4

- 9. a. How is E_h related to pH? (2 marks)
 - b. When the awof a food is set at 0.60, is an environment of high R.H preferred? Why? (2 marks)