



Register Number:  
Date: 19-11-2020

**ST. JOSEPH'S COLLEGE (AUTONOMOUS), BENGALURU-27**  
**M.Sc. BOTANY – III SEMESTER**  
**SEMESTER EXAMINATION: NOVEMBER 2020**  
**BO 9218: ECOLOGY AND ENVIRONMENTAL BIOLOGY**

Time: 2½ hrs

Max. Marks: 70

Draw diagrams and write examples wherever necessary  
This paper contains **ONE** printed page and **THREE** parts

**A. Answer any TEN of the following:**

10x2=20

1. CBD
2. e-waste
3. Bioventing
4. Point method
5. Red data book
6. Phytoextraction
7. Biomagnification
8. Carrying capacity
9. Protocooperation
10. Ecological pyramids
11. Sewage and sullage
12. Ambient air quality standards

**B. Write a critical note on any FIVE of the following:**

5x6=30

13. Acid rain
14. Tidal energy
15. Age pyramids
16. Boreal forests
17. Sources of water pollutants
18. Endangered Species Categories
19. Environmental Impact Assessment

**C. Give a comprehensive account of any TWO of the following:**

2x10=20

20. Nitrogen cycle
21. Primary and secondary air pollutants
22. Calculate IVI for the following data set & prepare a phytograph for the dominant species

Species	Density/ha	Frequency/ha	Basal Area/ha
Species A	15	6	75
Species B	10	2	50
Species C	20	8	100
Species D	15	8	75