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**B.M.S. COLLEGE FOR WOMEN, AUTONOMOUS**  
**BENGALURU – 560004**  
**SEMESTER END EXAMINATION – SEPTEMBER 2023**

**Open Elective –IV Semester**

**HUMAN MICROBIOME**  
**(NEP Scheme 2021-22 Onwards)**

**Course Code: MB4OE04**

**Duration: 2 ½ Hours**

**QP Code: 4205**

**Max. Marks:60**

**SECTION-A**

**I. Answer any ten of the following in one word or sentence each.**

**(1X10=10)**

1. Define microbiota.
2. State the term microflora
3. Name a bacteria on the skin
4. Name two bacteria in the intestine
5. What is pre natal microbiome?
6. What is obesity?
7. Define Nutritional modulation.
8. Write a selective medium for E.coli
9. Name any two fungi.
10. What is immunity?
11. Give the meaning antibacterials.
12. What is meant by a disease?

**SECTION-B**

**II. Answer any ten of the following.**

**(2X10=20)**

13. What is symbiotic association? Give an example.
14. Mention the normal microflora in reproductive system.
15. Give two beneficial microbes of the gut.
16. What is parasitic association?
17. What is functional food?
18. What are Probiotics?
19. How microbiome influences ageing?
20. Write about Type 2 Diabetes.

21. What is a microbiome genome?
22. Give the importance of yeast.
23. What are bacteriocins? Give example.
24. What is an infection? Give an example.

### SECTION-C

#### III. Answer any four of the following.

(5X4=20)

25. Explain the role of normal microbiota.
26. Write a note on normal flora in excretory system with its importance
27. Give a note on probiotics used for human benefits.
28. Mention the health claims and benefits of functional foods.
29. Give a general note on cultivation of micro organisms
30. Write short notes on human microbiome research in nutrition.

#### IV. Answer all of the following (MCQs)

(1X10=10)

31. Human microflora are :
  - a) Always beneficial to man
  - b) Normally present in body
  - c) Observed in Obesity people
  - d) Both (a) and (b)
  
32. Normal Gut microflora includes:
  - a) Lactobacillus and E.coli
  - b) Only E.coli
  - c) Lactobacillus, Bifidobacterium, E.coli
  - d) Only Bifidobacterium
  
33. Human obesity develops due to:
  - a) Overeating of healthy foods.
  - b) Craving for sugary foods and fatty foods.
  - c) Consuming more of Probiotics.
  - d) None of the above
  
34. Lactobacillus acidophilus is present in:
  - a) Curds
  - b) Rice and potato
  - c) All processed and packaged foods
  - d) Coffee and tea

35. Nutritional modulation is concerned with :

- a) Giving a high dose of antibiotics.
- b) Provide the processed foods
- c) To give healthy foods like curds and yoghurt
- d) To treat only Type 2 diabetes

36. Functional foods include:

- a) Oats and barley
- b) Fruits and desserts
- c) Rice and Dal
- d) None of the above

37. Pick the odd one:

- a) Aspergillus
- b) Penicillium
- c) Staphylococcus
- d) Mushroom

38. A parasite is:

- a) Dependent on host
- b) Independent organism
- c) Survives without host
- d) None of the above

39. Nutrition means:

- a) Imbalanced food diet
- b) Balanced food of fruits and vegetables
- c) Junk food
- d) Taking only minerals and vitamins

40. Diabetes can be treated by:

- a) Insulin
- b) Antibiotics
- c) Insulin and balanced diet
- d) Vaccines