

SARDAR PATEL UNIVERSITY

M. Sc (Integrated) Biotechnology – Nine Semester Examination

Wednesday, 19 – 10- 2016

Time: 10:00 am to 1:00 pm

NAME OF COURSE – FOOD BIOTECHNOLOGY

COURSE NUMBER-PS09CIGGB02

Maximum Marks: 70

Note: (1) All questions are compulsory.  
(2) Figure to right indicate marks.

Q.1 Choose the most appropriate answer from the four alternatives given. [8]

1. Debaryomyces grow in .....Nacl.  
(A)24% (B)12% (C)36% (D) 8%
2. Some of the species of Alternaria produce .....  
(A)Aflatoxins (B)Mycotoxins (C) Ochratoxin (D) Ochratoxin-A
3. Characteristics of probiotics is .....  
(A) Non pathogen (B)Not maintain good viability (C) Toxic (D) None of them
4. Traditional dietary sources of natural source of prebiotics is .....  
(A)Lemon (B)Garlic (C)Milk (D)Potato
5. Gel electrophoresis techniques use for the detection of .....  
(A) New gene (B) Gene (C) Hybrid (D) None of them
6. Determine the CCP(s) required to control the .....  
(A) Identified toxic (B) Identified hazards (C) Critical hazards (D)None of them
7. Protoplast fusion use the .....  
(A)PEG (B)PBP (C)2,4-D (D) BAP
8. Seedless variety of food produce from .....culture.  
(A) Embryo (B)Endosperm (C)Somatic embryogenesis (D) Protoplast fusion

Q.2 Answer the following (Any Seven). [14]

1. Write the general characteristic of Acinetobactor and Aeromonas.
2. Brief note on Penicillium and Rhizopus.
3. Enlist the different health effect of probiotics.
4. Write the ideal properties of prebiotics.
5. Which are the techniques uses for the increasing food production?
6. Which are the seven HACCP principles?
7. Enlist the different techniques for better nutrition production.
8. Define the transgenic plant and give two suitable examples.
9. Give the suitable examples of nutraceutical compounds.

Q.3 A. Enlist the different source of contamination. Explain any three sources. [6]

B. Brief note on FSSAI guidelines. [6]

OR

B. Write a short note on Saccharomyces and Rhodotorula. [6]

Q.4 A. Discuss the action of Inulin. [6]

B. "Probiotics bacteria is Friendly bacteria"- Give your comment. [6]

OR

B. Enlist the different groups of essential nutrients. Explain any three groups. [6]

Q.5 A. Define GMOs. Which are the techniques uses for detection of GMOs. Explain any one. [6]

B. Brief note on HACCP Principles. [6]

OR

B. Explains any two techniques increasing food production through gene transfer. [6]

Q.6 A. Write a short note on Single cell protein. [6]

B. Define protoplast. Enlist the different techniques uses for protoplast fusion. Explain any two techniques. [6]

OR

B. Write a short note on Protein. [6]

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← X →  
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