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C/16/2<sup>nd</sup> Seme./P.G.Dip./QUA-202

2016

**2nd Semester P.G. Diploma in  
Quality Control and Assurance in Microbial Technology**

**QCAMT**

**PAPER—QUA-202**

*Full Marks : 50*

*Time : 2 Hours*

*The figures in the right-hand margin indicate full marks.*

*Candidates are required to give their answers in their  
own words as far as practicable.*

*Illustrate the answers wherever necessary.*

*Answer any five questions from each group.*

**Group—A**

*(Marks : 25)*

*Answer any five questions.*

1. What are the effects of food additives generally used in various industries? Give some examples. 5

*(Turn Over)*

2. Mention the salient features of FSS Act established during 2006. 5
3. What do you mean by mycotoxins? Write down its major classes. 2+3
4. Describe briefly the antimicrobial roles of any two of the following : 2.5+2.5
- (i) Sodium benzoate ;
  - (ii) Sulphur dioxide ;
  - (iii) Sorbic acid and its salts.
5. Explain the various foodborne diseases which are associated with *C. botulinum* and *Shigella*.  $2 \times 2 \frac{1}{2}$
6. Explain the list of food business which under the Central licencing authority of FSSA, 2006. 5
7. Write short notes : 2.5+2.5
- (i) Alkaloids ;
  - (ii) Toxic factors in some oil seeds.

**Group—B**

(Marks : 25)

Answer any *five* questions.

1. (a) What are the full forms of :  
(i) CAC ; (ii) UNESCO and (iii) UNICEF.  
(b) Write briefly about ISO 14001.  
1+1+1+2
2. What is the importance of Packaging in food ?  
Give examples of good quality packaging of any one food items.  
2+3
3. Mention briefly about microbiological quality of finished products. How will you monitor sanitation in a food industry ?  
 $2\frac{1}{2}+2\frac{1}{2}$
4. Relate good hygiene with microbial contamination in food.  
Write any two criteria for maintaining street food quality, taste and safety.  
3+2
5. Give examples of validation of food quality. Name any two organizations responsible for validation & certification of food quality standard.  
3+2

6. Explain FDA rationale. What is the Indian counterpart of FDA? Write down its duties. 2+1+2

7. Write short notes on : 2×2½

(a) HACCP ;

(b) Spoilage of Milk.

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