kool mirch cortastican

2015

M.Sc. Part-I Examination

DIETETICS AND COMMUNITY NUTRITION MANAGEMENT

PAPER-III (Unit-5)

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 Question No. 1 and any four from the rest.

- 1. Answer any five questions from the following: 5×2
 - (a) What is meant by 'Water activity'?
 - (b) Explain the effects of drying upon microorganisms.
 - (c) Write the full form of ERH. How can you measure it?
 - (d) Name any two anthocyanides.

- (e) Mention the importance of sterilization during food processing.
- What do you mean by 'unsound meat'?
- What are the basic differences between roasting and frying?
- (h) What are salting and pickling?
- (a) Define food processing.
 - (b) What are the different methods used in food processing?
 - (c) What is curing of meats?

3+5+2

- (a) What is food irradiation?
 - (b) Write the advantages and disadvantages of food irradiation. and mod snottenup sur yas reward ...
 - (c) Briefly explain the shrinkage of food materials during drying.

$$2+(2\frac{1}{2}+2\frac{1}{2})+3$$

during food processing.

4. (a) Describe the different preservation techniques used

- (b) What are the health related problems caused during curing of meat by nitrate?
- (c) What do you mean by fluidized-bed-drying?

5+5+2

- 5. (a) Write the basic objectives of food processing operation.
 - (b) Describe the mechanism by which water exerts its protective effects in foods.
 - (c) Classify freezing technique of foods.
- 6. (a) Write the storage stability of frozen foods.
 - (b) What are the effects of freezing upon microorganisms?
 - (c) What do you mean by cryogenic freezing?
- 7. (a) Schematically explain the procedure for fish processing.
 - (b) Why enzymatic treatment is necessary for meat processing?
 - (c) What is condensed milk?
 - (d) What is vat method for the preservation of milk?

4+2+2+2

- 8. (a) What are the chemical preservatives used in food processing?
- (b) 'Safety during food handling is most important part of food processing' - Why?
 - (c) Mention the different pigments used in fruits.

4+4+2

- 9. (a) What do you mean by Radappertization?
 - (b) Describe the preparation of intermediate moisture profective effects in foods food (IMF).
 - (c) What are the characteristics of radiations of interest in food preservation?

(c) What do you mean by cryogenic beering? 2+5+3