

National Open University of Nigeria Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi, Abuja **Faculty of Agricultural Sciences** October/November, 2016

Programme: Agricultural Economics and Extension

Course Code: HCM 339

Course Title: Food and Beverage Production III

Credit Unit: 2

Total Score: 100 Marks

- Time Allowed: 2 Hours **Instruction: Answer any four (4) Questions** 1 What do you understand by the term heat transfer? 5mks (a) Name and explain briefly the three ways through which heat can be transferred **9mks** (b) (c) List three classes of cooking method. Briefly describe the effect of heat on: (d) (i) Proteins (ii) Starch (iii) Sugar (iv) Fat 8mks 2 (a) Name 3 classes of cakes with two examples each. 9mks (b) Mention the three methods for making butter cake. 3mks Identify the causes for the following faults in cakes. **2mks each** (c) (i) Cake lacks body/structure (ii) Crust too dark (iii) Top of cake peaks and cracks (iv) Batter overflows the pans (v) Cake dries out too soon Mention 6 important tips for a successful baking. 3mks (d) 3 What is broiling? (a) 3mks State the difference between grilling and broiling (b) 2mks Identify 3 different types of grilling and give one example each of foods that can be (c) cooked with each type. 6mks (d) List and explain the 4 methods of steaming. 10mks State 4 advantages of grilling food foods. 4mks (e) Mention 3 types of puddings. 3mks 4 (a) Describe the process of steaming a pudding. 8mks (b) Identify the 2 types of fish with 3 examples of each. **8mks** (c) Explain two ways of testing the quality of an egg. **6mks** (d) What is shallow frying? 5mks 5 (a) (b) Describe the effect of shallow frying on foods. 5mks Itemize the five conditions necessary for stir-frying. (c) 5mks Mention 5 varieties of cooking oil used in frying. **5mks** (d) (i) Write one difference and one similarity between stewing and casserole. (e) (ii) Mention three advantages of stewing. 5mks
- 6 (a) What is a sandwich? **3mks**
 - Explain the term Desert and name 5 types of common deserts. **7mks** (b)
 - List 5 pastry ingredients and explain their uses in pastry making. **15mks** (c)