



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**14-16 AHMADU BELLO WAY, VICTORIA ISLAND, LAGOS**  
**SCHOOL OF SCIENCE AND TECHNOLOGY**  
**JANUARY/FEBRUARY 2013 EXAMINATION**

**COURSE CODE:** MBF 841 **CREDIT UNITS:** 2  
**COURSE TITLE:** EMERGING TECHNOLOGIES IN INFORMATION TECHNOLOGY  
**TIME ALLOWED:** 2Hrs  
**Instructions:** 1. Attempt question number one (1) and any other two (2).  
2. Question number 1 is compulsory and carries 30 marks  
while the other 2 questions carry 20 marks each.  
3. Present all your points in coherent and orderly manner.

**QUESTION ONE**

1a Explain briefly, the following terms as related to technologies in information technology.

- (i) Blend (ii) Digital signature (iii) Auditory masking (iv) Webinar (v) EFTPOS (vi) Piconet (vii) Bluejacking (viii) Bluetooth  
8marks

b. (i) Explain the difference between the two categories of speaker recognition system. 2marks

- (ii) List 4 other names for internet TV.  
4marks

(iii) Briefly discuss each of the transition points/leg of the information triad. 6marks

c. (i) Identify 4 challenges facing VOIP.  
4marks

- (ii) Briefly discuss the basic features of PDAs.  
6marks

Question 2:

2a (i) List six applications of speech recognition in the military.  
6marks

2a (ii) What is AEC and list the problems to be encountered if missing in a VTC system. 4marks

b. (i) Discuss briefly, the process of bank wire transfer.  
10marks

Question 3:

Using diagrams and illustrations, explain the credit card base type digital cash programme.  
20marks

Question 4:

4a (i) In a tabular form, classify Bluetooth into different classes indicating their maximum power permitted and range.  
6marks

4a(ii). Discuss extensively, how the web works  
10marks

4b. Discuss the generations of the nano model of iPod.  
4marks

Question 5:

5a(i). List 4 limitation of MP3 technology  
4marks

5a(ii). List and explain 4 parts of a flashdrive.  
4marks

5b(i). Briefly explain the Dynamic Time Warping (DTW) based speech recognition.6marks

5b(ii).List 4 streaming audio format  
4marks

5b(iii). Mention 4 area\sector where multimedia is put to use.  
2marks