



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS**  
**MARCH/APRIL 2016 EXAMINATION**

**SCHOOL OF SCIENCE AND TECHNOLOGY**

**COURSE CODE:** CIT478  
**COURSE TITLE:** Artificial Intelligence (2 Credits)

**Answer any four (4) questions in 2½ Hours.**  
**Each question carries 17½ marks.**

**1(a)** Explain the term “Agent “ in Artificial Intelligence. Identify three different environments where an Agent can operate on. (7 marks)

**1(b)** . List and explain three (3) things that AI can do. (6 marks)

**1(c)** Outline three fields that are linked or associated with AI (**4½ marks**)

**2(a)** What is an Expert System? List three (3) types of Expert systems (7marks)

**2(b)** Outline and explain three (3) advantages of an Expert system. ( 6 marks)

**2( c)** Identify three (3) disadvantages of an expert system (**4½ marks**)

**3(a)** What is Artificial Intelligence (AI)? (5 marks)

**3 (b)** Identify any five domain of AI (8 marks)

**3(c )** Mention three (3) things that AI system cannot do yet (**4½ marks**)

**4(a)** Describe a Turning Test in AI (5 marks)

**4(b)** Outline four (4) major advances in areas of AI (8 marks)

**4(c )** Outline three fields that are linked or associated with AI (**4½ marks**)

**5(a)** What is Robotics? (5 marks)

**5(b)** Mention and explain four (4) types of Robot (8 marks)

**5(c )** List three (3) areas where Robots can be used (**4½ marks**)

**6(a)** Give the full meaning of the following acronyms:

(i)

• GIGO

(ii) UCS

(iii) LDS

(iv) KBS

(v) FOL

(vi) IPL

(vii) XML

( 9 marks)

**6(b)** Mention and explain three (3) areas where LISP can be used. (6 marks)

6(c) Identify three (3) features of Knowledge Representation Language ( $4\frac{1}{2}$  marks)