



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
**SCHOOL OF EDUCATION**  
**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF EDUCATION**  
**SPECIAL NEEDS EDUCATION**  
**2<sup>ND</sup> YEAR 1<sup>ST</sup> SEMESTER 2016 ACADEMIC YEAR**  
**MAIN CAMPUS**

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**COURSE CODE: ESE 205**

**COURSE TITLE: COGNITION AND LEARNING PROCESSES**

**EXAM VENUE:**

**STREAM: (BEd. SNE)**

**DATE:**

**EXAM SESSION:**

**TIME: 2 HOURS**

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**Instructions:**

- 1. Answer Question ONE (COMPULSORY) and ANY other 2 questions**
- 2. Candidates are advised not to write on the question paper.**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.**

### **QUESTION ONE.**

a) Briefly explain by giving examples what happens at each of the following information processing;

i) Encoding.

ii ) Storage.

Iii) Retrieval. (9 marks).

b) Explain three major types in each of the following perceptual areas and suggest two remedial strategies for each skill type.

i) Auditory Perception. (10 marks)

ii) Visual Perception. (10 marks)

c) Define the word schema (1 mark)

### **QUESTION TWO**

Using examples discuss Piaget's four stages of cognitive development and their implications to learners with special needs. (20 marks).

### **QUESTION THREE**

Discuss the role of environmental factors in learning. (20 marks)

### **QUESTION FOUR**

Explain how language is developed among children using Erickson's theory. (20 marks)

### **QUESTION FIVE)**

a) Differentiate between short and long term memory. (6 marks)

b) Explain how long term memory takes place. (8 marks)

c) State the effects of long term memory on a child's academic performance. (6 marks)