

Sept 2016 intake



EAST AFRICAN SCHOOL OF AVIATION
EXAMINATION
END TERM II

DIPLOMA IN AERONAUTICAL ENGINEERING AVIONICS
ICT, COMMUNICATION SKILLS & ENTREPRENEURSHIP

STREAM: Module I (Avionics + Airframes & Engines) **Duration: 3 HRS**

DAY/DATE: 03/04/2017 **TIME: 2- 5 PM**

INSTRUCTION TO CANDIDATES

You should have the following for this examination:

Answer booklet;

Answer ALL QUESTIONS

Maximum marks for each part of a question are as shown

SECTION A: COMMUNICATION SKILLS (30 marks)

Answer all the questions in this section

Question ONE

- a. Distinguish between the following types of communication (6 Marks)
 - i. Vertical and horizontal communication
 - ii. Formal and informal communication
 - iii. Interpersonal and intrapersonal communication
- b. Clearly explain any four C's of communication (4 Marks)
- c. Identify four objectives of a job interview (4 marks)
- d. (i) Explain four purposes of taking minutes in a business meeting (4 marks)
(ii) Explain four duties of a participant before and during a meeting (4 marks)
- e. State four functions of a MEMO in an organization (4 marks)
- f. Describe the main parts/ components of an official investigation report (4 Marks)

SECTION B: ENTREPRENEURSHIP EDUCATION (30 marks)

Answer all the questions in this section

Question TWO

- (a) i. Define the term business plan (2 marks)
ii. Outline the six components of a business plan (6 marks)
- (b) Distinguish between preference shares and ordinary shares (4 marks)
- (c) Explain four characteristics of a parastatal (4 marks)
- (d) Outline four principles of a cooperative society (2 marks)
- (b) Eva owns a fast food restaurant in a local town. It has been three years since she started the business and the business has continued to grow. However, Eva has a challenge in managing resources necessary for the success of the growing restaurant.
 - i. Outline four roles Eva plays in the business (4 marks)
 - ii. Explain three records that Eva should maintain for the restaurant (3 marks)
 - iii. Suggest two ways in which Eva can use ICT in the day to day running of her business (2 marks)
- (c) Distinguish between Article of Association and Memorandum of Association (3 marks)

(3 marks)

SECTION C: INFORMATION COMMUNICATION TECHNOLOGY (40 marks)

Answer all the questions in this section

Question THREE

- a)
- i. What is BIOS an acronym for? (1 Mark)
 - ii. Rank the following in terms of speed of access: - HDD, FDD, RAM, L2- cache, Magnetic Tape, CPU registers. (5 Marks)
 - iii. Name the acronym for CISC as relates to early computer CPU architecture design (2 Marks)
 - iv. List **five** advantages of early CISC processing architectures. (5 Marks)
- b)
- i) Describe four essential characteristics of DRAM as applies to computers memory (4 Marks)
 - ii) Why is SRAM usually more expensive than DRAM? (1 Marks)
 - iii) Distinguish between volatile and non-volatile memory. (2 Marks)
- c)
- i) What is cache memory and how is it different from primary memory? (2 Marks)
 - ii) With the aid of a diagram, explain the principles of operation of level 2 (L2) cache RAM (4 Marks)
 - iii) Distinguish between PROM and EPROM in computer BIOS (4 Marks)
 - iv) Give five input and five output devices used in computers (10 Marks)

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