

451/3
COMPUTER STUDIES
Paper 3
(Project)
February 2023 to August 2023
7 months



THE KENYA NATIONAL EXAMINATIONS COUNCIL
Kenya Certificate of Secondary Education
Computer Studies
Paper 3
(Project)
7 months

Instructions to candidates

- (a) *Candidates are expected to use a Database Management System when developing their projects.*
- (b) *A soft copy of the system and documentation must be stored in a removable storage medium (CD-R/CD-RW/DVD-R/DVD-RW).*
- (c) *Candidate's name and index number should appear on the cover page of the documentation and on the storage medium.*
- (d) *Each candidate should hand in a hard copy and a soft copy of the project documentation.*
- (e) ***Candidates should answer the questions in English.***

This paper consists of 3 printed pages.

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

MARINGO SPORTS CLUB SYSTEM

Maringo Sports Club was formed by Maringo County with the intention of developing talent among the youths within the county in various games.

The club enrolls youths of ages 12 to 35 years for any of the activities offered. The games offered include: swimming, hockey, lawn tennis, table tennis, darts, badminton, volleyball, basketball, netball, football, baseball, rugby, pool, chess, and draft.

During registration, the youths are required to provide the following details: full name, gender, next of kin, date of birth, contact details, sub-counties, school or college, various games of interest (in order of priority) and other details such as weight, height, and special needs. The youths can be enrolled as a group through their schools, colleges, or religious organisations and may also enrol as individuals.

Individual membership fee is KSh 1,000 and groups are required to pay a membership fee of KSh 500 per person.

The enrolled members are categorised into three groups namely: the minors consisting of members who are of ages 12 to 17 years, the middle group who are of ages 18 to 25 years and the seniors who are of ages 26 to 35 years.

The sports club offers various sporting items at a fee and the items are available at the club's store. A member can purchase any of the items by cash or mobile money transfer. The items include:

	Item	Amount/Per item (KSh)
(i)	Bloomer	250
(ii)	Games shorts	750
(iii)	Hockey stick	2,000
(iv)	Socks	350
(v)	Sports shoes	Ranging from 1,000 to 4,000
(vi)	Track suit	1,000
(vii)	T-shirt	800
(viii)	Wrapper	450

If a member purchases items of a value exceeding KSh 10,000, a discount of 5% is offered.

The store clerk is required to maintain records of the items sold and the stock in the store. If the stock level of any item drops to 20% of its maximum stock level, the clerk is expected to alert the club management to re-order the item.

Each game has a patron whose duties include facilitating events within the club and with other external teams. If a team is required to play against an external team, each member in the team is required to pay a facilitation fee of Kshs. 500. The patron is paid 20% of the total facilitation fee as commission.

The patron is also responsible for selecting a game captain from the members. The captain is responsible for collecting and returning various sports equipment from the store to facilitate the game. In case of any loss or damage to the equipment, the captain and the team members are surcharged at the market value of the equipment plus 10% of the value.

Develop a well documented computerised system for the club's transactions that would be able to:

1. Maintain details of the club members and their roles;
2. Maintain details of sports in the club;
3. Maintain records of items in the store;
4. Maintain records of items purchased and their subsequent stock levels;
5. Maintain records of all facilitation fees for all sports events;
6. Compute each of the following:
 - (a) total membership fee;
 - (b) discounted prices;
 - (c) total amount for items bought;
 - (d) surcharged fee for lost or damaged equipment;
 - (e) facilitation fee;
 - (f) patrons' commission;
 - (g) total income for the club.
7. Generate appropriate reports.