

Name ..... Class..... Index No. ....

Date.....

Signature.....



**KAPSABET**  
HIGH SCHOOL  
"Strive to Excel."

451/1  
COMPUTER STUDIES  
Paper 2  
(Practical)  
November 2020  
2½ hours.

School Examination.  
*Mock Exams*  
COMPUTER STUDIES  
Paper 2  
(Practical)  
November 2020  
2½ hours.

**INSTRUCTIONS TO CANDIDATES:**

- 1) *If not instructed in the question on where to Type your name and index number , you must then type them at the top right hand corner of each printout*
- 2) *Write your name and index number on the CD*
- 3) *Write the name and version of the software used for each question attempted in the answer sheet.*
- 4) *Answer all the questions.*
- 5) *All questions carry equal marks*
- 6) *Passwords **Should not be used** while saving in the CD*
- 7) *All answers **must** be saved on your CD*
- 8) *Make a print out of the answers on the answer sheets provided*
- 9) *Arrange your printouts and tie/staple them together*
- 10) *Hand in all **Printouts** and the **CD**.*

**This paper consists of 8 printed pages**  
**Candidates should check the question paper to ensure that all the printed pages are printed as indicated and no questions are missing.**

1. a) (i) Using a desktop publisher software, prepare the logo in **figure 1** below as per the instructions given in **figure 2**. (21 marks)
- (ii) Save the logo as **stkeeprope1** using the default file type of the desktop publisher software (2 marks)
- (iii) Save the logo as **stkeepropelogo** using any of the available image file types. Use either of the following Image file formats: png, jpeg, or gif. (2 marks)

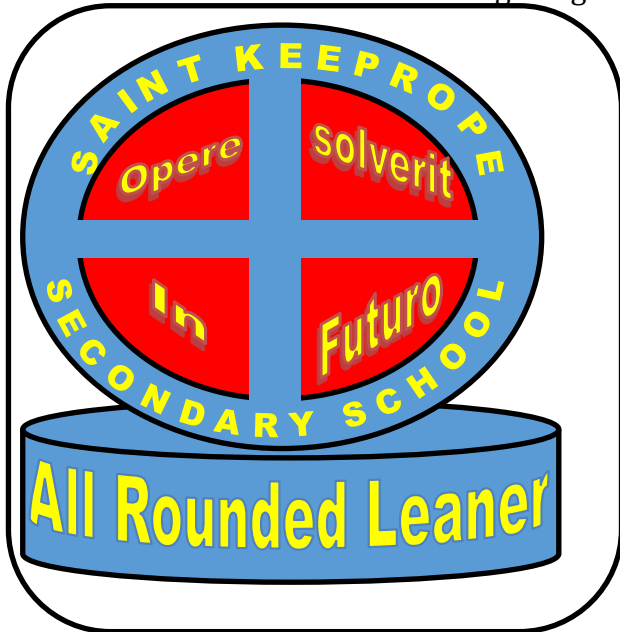


figure 1

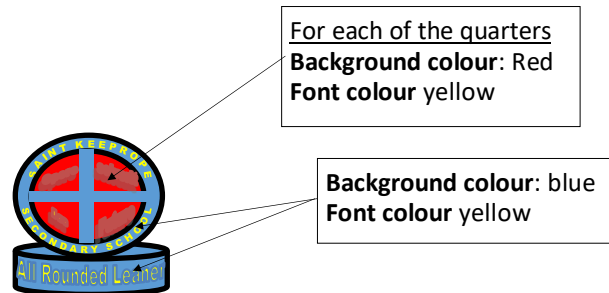


Figure 2

- b) (i) Prepare the news letter on **page 3 (figure 4)** as per layout instructions given in **figure 3** below. (21 marks)
- (ii) Save the newsletter as **stkeepropenews** using the default file type of the desktop publisher software (2 marks).
- (ii) Save the newsletter **stkeepropenews** as a **pdf** file type. (2 marks)

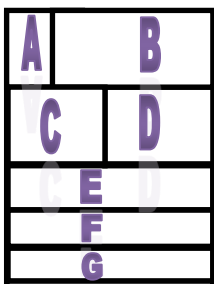


Figure 3

Layout area	Content and Layout instructions
A	<ul style="list-style-type: none"> <li>Insert the school logo created in <b>part a(ii)</b> above</li> </ul>
B	<ul style="list-style-type: none"> <li>Insert a text box and fill it with yellow colour</li> <li>Set one text to font size 36 and the other to font size 16. the fonts should be black</li> </ul>
C	<ul style="list-style-type: none"> <li>Insert a text box and fill it light grey colour</li> <li>Use font size 12, font type cambria</li> <li>Text box C, E, F contains the <b>Message from the Head</b>. This is one messages. If flows from text box C, E, then F</li> <li>Ensure that text that <b>overflows from text box C</b>, flow into text box E, and <b>overflow from text box E</b> flows into text box F.</li> </ul>
D	<ul style="list-style-type: none"> <li>Insert a text box and fill it light brown colour</li> <li>Use font size 12, font type cambria</li> </ul>
E	<ul style="list-style-type: none"> <li>Insert a text box and fill it with ascent 5 (white) darker 5% colour</li> <li>Use font size 12, font type cambria</li> <li>Insert any picture of your choice and crop it accordingly</li> <li>Format the textbox into 2 columns</li> </ul>
F	<ul style="list-style-type: none"> <li>Insert a text box and fill it with ascent 5 (white) darker 5% colour</li> <li>Use font size 12, font type cambria</li> </ul>
G	<ul style="list-style-type: none"> <li>Use the wordart tool to produce the text "Omnes Discipuli Rotundatis" and format it accordingly</li> </ul>



TERM 2 2020

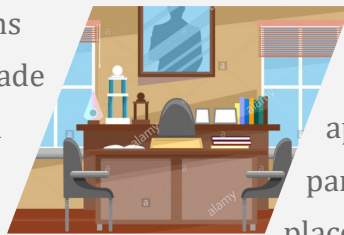
# WELCOME BACK STUDENTS

### Message from the Head

Dear Parents and Guardians,

Welcome back to the Covid 19 term! I hope the Pandemic break allowed you to unwind and relax, providing

opportunities for family time. This week we kicked off with Earth day activities, a student led initiative to celebrate Earth Day and educate students about sustainability, our world **and** the impact humans have. I would like to thank Jade and the D1 students who led and delivered this initiative.



I would like to alert you to a PTA initiative to host a free E-safety workshop called "ONline and ME" for students and parents. The

### Important events

- 1.October 10<sup>th</sup> :Covid-19 protocols Orientation
- 2.October 15<sup>th</sup> :Visit from the Education Office
- 3.October 30<sup>th</sup> :New School Chapel Dedication
- 4.November 10th :Mid term exams
- 5.December 10th :Pre-Mock exams

workshop will be led by presenters from the Parent Zone, a UK company dedicated to family internet safety; for more details, please click this link <https://parentzone.org.uk/home> . The parent event will take place on Monday 19<sup>th</sup> October at 4.30pm and last approximately 1 hour; it is open to all parents. The student experiences will take place on Tuesday 20<sup>th</sup> October during the school day.

Finally I would like to remind you that October 20<sup>th</sup> is a National Holiday and therefore the school will be shut. I wish you a wonderful weekend.

Best wishes

Jack Ole Gunia

# Omnes Discipuli Rotundatis

Figure 4

2. A systems designer has come up with an exams invigilation system design for **Saint Keeprope Secondary School** as indicated below.

- a) Use these design specification to develop a Relational Database Management System for the school Key in the **sample data** provided by the school. **Save** the database as **SKSSEMS**.

(46 MARKS)

Class			Tables			StudentClassEnrolment		
Field name	Data type	Description	Field name	Data type	Description	Field name	Data type	Description
ClassID	text	Primary key	ClassID	text		ClassID	text	
ClassName	text		ClassName	text		ClassName	text	

ExamsTimeTable		
Field name	Data type	Description
SubjectID	text	
InvigilatorID	text	Id of teacher who will invigilate the exam
ClassID	text	
ExamDate	Date/time	The date of the exam
ExamStartTime	Date/time	The time (IN AM/PM Format), when the exam will start
ExamStopTime	Date/Time	The time(in am/pm format) when the exam will stop

**Students**

Field name	Data type	Description
StudentID	text	Primary key
StudentName	text	

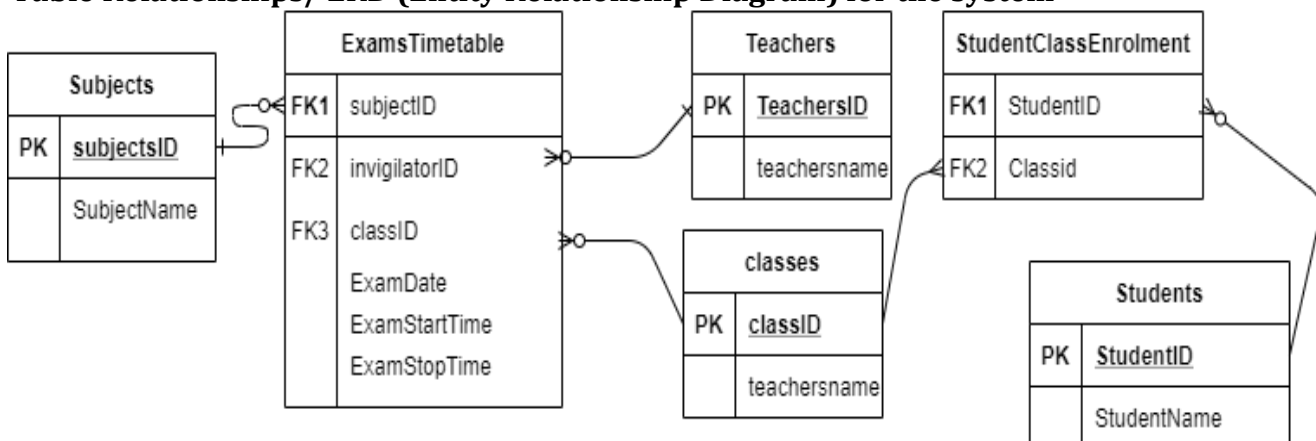
**Subjects**

Field name	Data type	Description
SubjectID	text	Primary Key
SubjectName	text	

**Teachers**

Field name	Data type	Description
TeacherID	text	Primary Key
TeacherName	text	

**Table Relationships/ ERD (Entity Relationship Diagram) for the system**



Key PK– Primary Key, FK– Foreign Key

## Query Design

### Exams Table Query

The diagram shows four tables: Teachers, ExamsTimeTable, Subjects, and Classes. Teachers (1) is linked to ExamsTimeTable (∞). ExamsTimeTable (∞) is linked to Subjects (1). ExamsTimeTable (∞) is linked to Classes (1). The ExamsTimeTable table lists fields: SubjectID, InvigilatorID, ClassID, ExamDate, ExamStartTime, and ExamStopTime. The Subjects table lists fields: SubjectID and SubjectName. The Teachers table lists fields: TeacherID and TeacherName. The Classes table lists fields: ClassID and ClassName.

Field:	SubjectID	SubjectName	InvigilatorID	TeacherName	ClassID	ClassName	ExamDate	ExamStartTime	ExamStopTime
Table:	ExamsTimeTable	Subjects	ExamsTimeTable	Teachers	ExamsTimeTable	Classes	ExamsTimeTable	ExamsTimeTable	ExamsTimeTable

- A calculated field shall be used to determine the duration of an exam by comparing the exam's start and stop times
- The exams start time shall be used to determine if the exam session is morning or afternoon

### Students Class enrolment Query

The diagram shows three tables: Classes, Student\_Class\_Enrolment, and Students. Classes (1) is linked to Student\_Class\_Enrolment (∞). Student\_Class\_Enrolment (∞) is linked to Students (1). The Student\_Class\_Enrolment table lists fields: ClassID and StudentID. The Classes table lists fields: ClassID and ClassName. The Students table lists fields: StudentID and StudentName.

Field:	ClassID	StudentID	StudentName
Table:	Student_Class_Enrolment	Student_Class_Enrolment	Students

### StudentsExams Table Query

The diagram shows six tables: Teachers, ExamsTimeTable, Subjects, Classes, Student\_Class\_Enrolment, and Students. Teachers (1) is linked to ExamsTimeTable (∞). ExamsTimeTable (∞) is linked to Subjects (1). ExamsTimeTable (∞) is linked to Classes (1). ExamsTimeTable (∞) is linked to Student\_Class\_Enrolment (∞). Student\_Class\_Enrolment (∞) is linked to Students (1). The ExamsTimeTable table lists fields: SubjectID, InvigilatorID, ClassID, ExamDate, ExamStartTime, and ExamStopTime. The Subjects table lists fields: SubjectID and SubjectName. The Teachers table lists fields: TeacherID and TeacherName. The Classes table lists fields: ClassID and ClassName. The Student\_Class\_Enrolment table lists fields: ClassID and StudentID. The Students table lists fields: StudentID and StudentName.

Field:	SubjectID	SubjectName	InvigilatorID	TeacherName	ClassID	ClassName	ExamDate	ExamStartTime	ExamStopTime	StudentID	StudentName
Table:	ExamsTimeTable	Subjects	ExamsTimeTable	Teachers	ExamsTimeTable	Classes	ExamsTimeTable	ExamsTimeTable	ExamsTimeTable	Student_Class_Enrolment	Students

## Reports

### Exam Time Table( This shall be based on the exam time table query)

Exams Time Table							
Exam Date	Session	Class	Subject	Start	Stop	Duration	Invigilator
Monday, 22 March 2021	Morning	FORM 1	MATHEMATICS	08:00 am	09:30 am	1:30	MRS. MAKUMI
		FORM 2	COMPUTER STUDIES	08:00 am	10:00 am	2:00	MS. SIXITA
		FORM 4	COMPUTER STUDIES	08:00 am	10:30 am	2:30	MS. TUMBILI
	Afternoon	FORM 1	ENGLISH	02:00 pm	04:30 pm	2:30	MS. TUMBILI
		FORM 2	ENGLISH	02:00 pm	04:00 pm	2:00	MRS. MAKUMI
Tuesday, 23 March 2021	Morning	FORM 1	KISWAHILI	08:00 am	10:45 am	2:45	MR. MATATU
		FORM 2	KISWAHILI	08:00 am	10:30 am	2:30	MRS. ENANE
		FORM 3	COMPUTER STUDIES	08:00 am	10:30 am	2:30	MS. TUMBILI
	Afternoon	FORM 1	COMPUTER STUDIES	02:00 pm	04:15 pm	2:15	MR. KETANO
		FORM 2	MATHEMATICS	02:10 pm	04:00 pm	1:50	MRS. MAKUMI

### Invigilators Exam Time Table Report ( This shall be based on the exam time table

Exams Time Table							
	Exam Date	Session	Class	Subject	Start	Stop	Duration
<b>MR. KETANO</b>	Tuesday, 23 March 2021	Afternoon	FORM 1	COMPUTER STUDIES	02:00 pm	04:15 pm	2:15
	Wednesday, 24 March 2021	Morning	FORM 3	ENGLISH	08:00 am	10:20 am	2:20
	Thursday, 25 March 2021	Afternoon	FORM 4	MATHEMATICS	02:00 pm	04:30 pm	2:30
<b>MR. MATATU</b>	Tuesday, 23 March 2021	Morning	FORM 1	KISWAHILI	08:00 am	10:45 am	2:45
	Wednesday, 24 March 2021		FORM 4	ENGLISH	08:00 am	10:15 am	2:15
<b>MRS. ENANE</b>	Tuesday, 23 March 2021	Morning	FORM 2	KISWAHILI	08:00 am	10:30 am	2:30
	Friday, 26 March 2021		FORM 4	KISWAHILI	08:00 am	10:00 am	2:00

### Class Exam Time Table( This shall be based on the exam time table query)


Exams Time Table								
	Exam Date	Session	Class	Subject	Start	Stop	Duration	Invigilator
<b>FORM 1</b>	Monday, 22 March 2021	Morning		MATHEMATICS	08:00 am	09:30 am	1:30	MRS. MAKUMI
	Tuesday, 23 March 2021	Morning		KISWAHILI	08:00 am	10:45 am	2:45	MR. MATATU
	Monday, 22 March 2021	Afternoon		ENGLISH	02:00 pm	04:30 pm	2:30	MS. TUMBILI
	Tuesday, 23 March 2021	Afternoon		COMPUTER STUDIES	02:00 pm	04:15 pm	2:15	MR. KETANO
<b>FORM 2</b>	Monday, 22 March 2021	Morning		COMPUTER STUDIES	08:00 am	10:00 am	2:00	MS. SIXITA
	Tuesday, 23 March 2021	Morning		KISWAHILI	08:00 am	10:30 am	2:30	MRS. ENANE
	Monday, 22 March 2021	Afternoon		ENGLISH	02:00 pm	04:00 pm	2:00	MRS. MAKUMI
	Tuesday, 23 March 2021	Afternoon		MATHEMATICS	02:10 pm	04:00 pm	1:50	MRS. MAKUMI

### Class Exam Time Table( This shall be based on the student exam time table query)

Exams Time Table									
Student ID	Name	Exam Date	Session	Class	Subject	Start	Stop	Duration	Invigilator
ST9	NINE TISA	Tuesday, 23 March 2021	Morning	FORM 3	COMPUTER STUDIES	08:00 am	10:30 am	2:30	MS. TUMBILI
		Friday, 26 March 2021	Morning	FORM 3	KISWAHILI	08:00 am	10:00 am	2:00	MS. SIXITA
		Wednesday, 24 March 2021	Afternoon	FORM 3	MATHEMATICS	02:00 pm	04:30 pm	2:30	MS. SIXITA
		Wednesday, 24 March 2021	Morning	FORM 3	ENGLISH	08:00 am	10:20 am	2:20	MR. KETANO
ST8	EIGHT NANE	Tuesday, 23 March 2021	Morning	FORM 3	COMPUTER STUDIES	08:00 am	10:30 am	2:30	MS. TUMBILI
		Wednesday, 24 March 2021	Morning	FORM 3	ENGLISH	08:00 am	10:20 am	2:20	MR. KETANO
		Wednesday, 24 March 2021	Afternoon	FORM 3	MATHEMATICS	02:00 pm	04:30 pm	2:30	MS. SIXITA
		Friday, 26 March 2021	Morning	FORM 3	KISWAHILI	08:00 am	10:00 am	2:00	MS. SIXITA

## INPUT SCREEN DESIGN (FORMS)

### Main Menu



**SAINT KEEPROPE SECONDARY SCHOOL EXAM INVIGILATION MANAGEMENT SYSTEM**

Manage Classes

Manage Students

Enroll Students To Class

Manage Subjects

Manage Teachers

Prepare Exam Time Table

**REPORTS**

Overall Exams TimeTable

Invigilators Exams TimeTable

Class Exam TimeTable

Students Exam Timetable

Exit System

### Classes

ID

Name

Find Record

Add Record

Delete Record

First Record

Next Record

Previous Record

Last Record

Close

### Students

ID

Name

Find Record

Add Record

Delete Record

First Record

Next Record

Previous Record

Last Record

Close

### Subjects

ID

Name

Find Record

Add Record

Delete Record

First Record

Next Record

Previous Record

Last Record

Close

### Teachers

ID

Name

Find Record

Add Record

Delete Record

First Record

Next Record

Previous Record

Last Record

Close

### Students Classes Enrolment

ID

Name

Find Record

Add Record

Delete Record

**CLASS MEMBERS**

Student ID	StudentName
ST1	ONE MOJA
ST2	TWO MBILI
ST3	THREE TATU
ST4	FOUR NNE
*	

First Record

Next Record

Previous Record

Last Record

Close

### Exam Time Table

Class ID

InvigilatorID

Subject ID

Exam Date

Exam Start Time

Exam Duration

Class Name

Invigilator Name

SubjectName

ExamStop Time

Session

Find Record

Add Record

Delete Record

First Record

Next Record

Previous Record

Last Record

Close

**SAMPLE DATA**

Classes		Subjects	
ClassID	ClassName	SubjectID	SubjectName
F1	FORM 1	SB101	MATHEMATICS
F2	FORM 2	SB102	ENGLISH
F3	FORM 3	SB103	KISWAHILI
F4	FORM 4	SB451	COMPUTER STUDIES

ExamsTimeTable					
SubjectID	InvigilatorID	ClassID	ExamDate	ExamStartTime	ExamStopTime
SB101	T10	F1	22/03/2021	08:00 am	09:30 am
SB102	T2	F1	22/03/2021	02:00 pm	04:30 pm
SB103	T3	F1	23/03/2021	08:00 am	10:45 am
SB451	T5	F1	23/03/2021	02:00 pm	04:15 pm
SB451	T6	F2	22/03/2021	08:00 am	10:00 am
SB102	T10	F2	22/03/2021	02:00 pm	04:00 pm
SB103	T8	F2	23/03/2021	08:00 am	10:30 am
SB101	T10	F2	23/03/2021	02:10 pm	04:00 pm
SB451	T2	F3	23/03/2021	08:00 am	10:30 am
SB102	T5	F3	24/03/2021	08:00 am	10:20 am
SB101	T6	F3	24/03/2021	02:00 pm	04:30 pm
SB103	T6	F3	26/03/2021	08:00 am	10:00 am
SB451	T2	F4	22/03/2021	08:00 am	10:30 am
SB102	T3	F4	24/03/2021	08:00 am	10:15 am
SB101	T5	F4	25/03/2021	02:00 pm	04:30 pm
SB103	T8	F4	26/03/2021	08:00 am	10:00 am

Student_Class_Enrolment		Students		Teachers	
ClassID	StudentID	StudentID	StudentName	TeacherID	TeacherName
F1	ST1	ST8	EIGHT NANE	T10	MRS. MAKUMI
F4	ST10	ST11	ELEVEN NAMOJA	T2	MS. TUMBILI
F4	ST11	ST5	FIVE TANO	T3	MR. MATATU
F4	ST12	ST4	FOUR NNE	T5	MR. KETANO
F1	ST2	ST9	NINE TISA	T6	MS. SIXITA
F1	ST3	ST1	ONE MOJA	T8	MRS. ENANE
F2	ST4	ST7	SEVEN SABA		
F1	ST4	ST6	SIX SITA		
F2	ST5	ST10	TEN KUMI		
F2	ST6	ST3	THREE TATU		
F3	ST7	ST12	TWELVE NAMBILI		
F3	ST8	ST2	TWO MBILI		
F3	ST9				

**b) Print all the reports. (4 marks)**