



NATIONAL SENIOR CERTIFICATE EXAMINATION  
NOVEMBER 2024

## INFORMATION TECHNOLOGY: PAPER I

### INSTRUCTIONS TO TEACHERS AND CHIEF INVIGILATORS

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#### TO THE TEACHER RESPONSIBLE FOR CANDIDATES OFFERING THE INFORMATION TECHNOLOGY PRACTICAL EXAMINATION

#### INSTRUCTIONS CONCERNING DATA FILES SUPPLIED IN THE IEB ELECTRONIC POSTBOX: ASSESSMENT MATERIAL

You have been supplied with files in the IEB Electronic Postbox. It is the responsibility of the Information Technology teacher to check **two days before the examination** that they can open the files and that the files can be read by the relevant applications. Printouts of the files are given, starting on **page 4** of this document. The details of the files are as follows:

**Files for learners: please consult the folders in the IEB Electronic Postbox. These are the important files only.**

#### **Section A:**

SAMusic\_Access.mdb  
SAMusic\_JavaDB.sql  
SAMusic\_MySQL.sql  
SQLAnswerSheet.rtf  
SQLBrowser.exe

#### **Section B:**

MusicData.txt

If you have any problems with accessing the files in the IEB Electronic Postbox, please notify the IEB immediately.

Individual copies of these files will be required by each candidate writing the Information Technology Practical Examination (Paper I). Please copy the relevant files onto the disk space that will be used exclusively by each candidate.

Confidentiality is of the utmost importance. Under no circumstances should candidates have access to these files before the examination.

### **After the examination:**

1. A backup of each candidate's work must also be made and kept at the school on suitable storage media until 28 February 2025 when the re-marking process will have been completed.
2. The candidates must print a code listing of all the programs/classes they have coded. They will be given half an hour to print after the examination has been completed. These printouts must be placed in the electronic bag the question papers were delivered in.

### **Submission of the Practical Examinations for marking**

The Information Technology: Paper I (Practical Examination) is scheduled for Wednesday, 23 October 2024, from 9:00 to 12:00. On completion of the examination:

1. It is the IT teachers' responsibility to ensure that all the candidates' work is printed out as a hard copy in the presence of the Chief Invigilator.
2. One hard copy of each candidate's practical examination, labelled with the examination number barcoded sticker provided by the IEB, must be sent to the IEB in the electronic bag.
3. A backup of each candidate's work must also be made and kept at the school on relevant storage media until 28 February 2025 when the re-marking process will have been completed.
4. The hard copy of each candidate's practical examination must be locked in the electronic examinations bag by no later than 17:00 on Wednesday, 23 October 2024.
5. **A completed and signed copy of the attached PRACTICAL EXAMINATION DECLARATION IN GRADE 12, 2024 is to be included in the electronic bag.**
6. The electronic examinations bag with the learner printouts needs to be returned to the IEB by Friday, 25 October 2024.
7. Please note that **no CDs will be provided by the IEB** for the candidates' work, as only the hard copy printout of each candidate's work with the examination barcoded sticker needs to be submitted to the IEB.

**LETTER FROM THE HIGH SCHOOL HEAD AND IT TEACHER(S)**



*Attachment to Circular no.146/2024*

Name of School	
Centre Number	
Completed by	
Designation	

The IEB  
P O Box 875  
Highlands North  
2037

Dear IEB

**RE: PRACTICAL EXAMINATION DECLARATION IN GRADE 12, 2024**

**INFORMATION TECHNOLOGY (IT)**

<b>We certify that we have ensured that:</b>	<b>Cross your response</b>	
	YES	NO
All the work in each candidate’s hard copy has been printed from the examination location without any modification whatsoever.	YES	NO
All the work in the printed hardcopy is the work of that candidate only.	YES	NO
One hard copy of each candidate’s practical examination, labelled with the examination number barcode sticker, has been sent to the IEB.	YES	NO
<b>NO CANDIDATE HAD ACCESS TO THE INTERNET DURING THE EXAMINATION.</b>	<b>YES</b>	<b>NO</b>
No help or assistance at all was given to or allowed to be given to any candidate other than that of a technical nature – either a computer malfunction or a power failure.	YES	NO
A comprehensive incident report describing the computer malfunction and/or the power failure has been sent to the IEB.	YES	NO
A copy of each candidate’s work has been saved on the school system and will be kept at the school on relevant storage media until 28 February 2025 when the re-marking process will have been completed.	YES	NO

\_\_\_\_\_  
**IT TEACHER(S)**

\_\_\_\_\_  
**HEAD OF SCHOOL**

\_\_\_\_\_  
**DATE**

\_\_\_\_\_  
**DATE**

## FILES FOR CANDIDATES

The following pages contain the hard copy printouts of the data supplied to each of the candidates.

### SECTION A

#### SAMusic\_Access.mdb

#### tblBookings Table

Data may be formatted differently on your computer depending on its settings.

FestID	MusID	SetTime
1	1	23:00:00
1	8	13:45:00
1	9	17:30:00
2	6	21:00:00
3	2	19:00:00
3	5	22:15:00
3	7	20:00:00
4	2	22:15:00
4	8	13:00:00
5	7	14:30:00
6	9	14:45:00
7	7	23:00:00
8	3	15:30:00
8	6	15:00:00
8	7	15:30:00
10	5	15:15:00
10	9	20:00:00
11	6	17:30:00
12	3	22:30:00
13	1	21:45:00
13	5	19:30:00
14	8	20:45:00
15	1	15:00:00
15	9	23:15:00
16	8	22:30:00
16	9	17:45:00
17	2	16:00:00
17	3	21:30:00
17	9	21:30:00
18	7	18:00:00
19	2	15:30:00
20	3	18:00:00
20	6	22:45:00

FestID	MusID	SetTime
21	5	13:00:00
21	6	15:00:00
22	2	16:15:00
22	5	21:00:00
22	7	14:45:00
23	3	16:45:00
24	5	22:15:00
24	6	23:15:00
24	8	17:15:00
24	9	16:30:00

### tblFestivalsTable

Data may be formatted differently on your computer depending on its settings.

FestID	FestName	FestDate	Capacity	TicketCost
1	Valentine Fire	2022/02/20	27000	200
2	Dance Into the Evening	2022/06/04	17000	180
3	Fire in June	2022/06/10	25000	200
4	Dance Into the Evening	2022/07/14	26000	140
5	In the Veldt	2022/10/05	14000	160
6	Coffee and Cake	2022/10/28	23000	290
7	Dance Into the Evening	2022/11/16	12000	140
8	Holiday Fire	2022/12/10	28000	250
9	Amapiano All the Way	2022/12/25	22000	250
10	Valentine Fire	2023/02/15	27000	220
11	Dance Into the Evening	2023/03/03	22000	220
12	In the Veldt	2023/03/18	20000	260
13	Fire in June	2023/06/08	25000	220
14	Amapiano All the Way	2023/10/27	27000	230
15	Kenton Festival	2023/12/22	27000	190
16	Holiday Fire	2023/12/28	28000	270
17	Valentine Fire	2024/02/24	27000	240
18	Dance Into the Evening	2024/04/12	24000	200
19	Coffee and Cake	2024/05/04	9000	120
20	In the Veldt	2024/05/19	13000	300
21	Amapiano All the Way	2024/06/21	23000	230
22	Fire in June	2024/06/22	25000	240
23	Durban Jol	2024/11/15	7000	220
24	Holiday Fire	2024/12/19	28000	290

### tblMusicians Table

Data may be formatted differently on your computer depending on its settings.

<b>MusID</b>	<b>StageName</b>	<b>Fee</b>	<b>Province</b>	<b>Solo</b>
1	Rebel	174651	Gauteng	No
2	Thabisile Ndlovu	188852	Mpumalanga	Yes
3	Flowers	127890	Western Cape	No
4	Samuel Ericson	80732	Gauteng	Yes
5	Easy K	167545	Gauteng	Yes
6	Kusuma Chapman	81282	Western Cape	Yes
7	Roger Hatfield	213307	Limpopo	Yes
8	Sound of Fury	186406	Mpumalanga	No
9	Springheeled Dassies	91651	Gauteng	No

### **SAMusic\_JavaDB.sql**

```
CREATE TABLE tblMusicians (  
MusID INTEGER NOT NULL PRIMARY KEY  
GENERATED ALWAYS AS IDENTITY  
(START WITH 1, INCREMENT BY 1),  
StageName VARCHAR(60),  
Fee INT,  
Province VARCHAR(60),  
Solo BOOLEAN  
);
```

```
CREATE TABLE tblFestivals (  
FestID INTEGER NOT NULL PRIMARY KEY  
GENERATED ALWAYS AS IDENTITY  
(START WITH 1, INCREMENT BY 1),  
FestName VARCHAR(60),  
FestDate DATE,  
Capacity INT,  
TicketCost INT  
);
```

```
CREATE TABLE tblBookings (  
FestID INTEGER NOT NULL,  
MusID INTEGER NOT NULL,  
SetTime TIME,  
PRIMARY KEY (FestID, MusID)  
);
```

```
INSERT INTO tblMusicians (StageName, Fee, Province, Solo) VALUES  
( 'Rebel', 174651, 'Gauteng', FALSE),  
( 'Thabisile Ndlovu', 188852, 'Mpumalanga', TRUE),  
( 'Flowers', 127890, 'Western Cape', FALSE),  
( 'Samuel Ericson', 80732, 'Gauteng', TRUE),  
( 'Easy K', 167545, 'Gauteng', TRUE),  
( 'Kusuma Chapman', 81282, 'Western Cape', TRUE),  
( 'Roger Hatfield', 213307, 'Limpopo', TRUE),  
( 'Sound of Fury', 186406, 'Mpumalanga', FALSE),  
( 'Springheeled Dassies', 91651, 'Gauteng', FALSE);
```

```
INSERT INTO tblFestivals (FestName, FestDate, Capacity,  
TicketCost) VALUES  
( 'Valentine Fire', '2022-02-20', 27000, 200),  
( 'Dance Into the Evening', '2022-06-04', 17000, 180),  
( 'Fire in June', '2022-06-10', 25000, 200),  
( 'Dance Into the Evening', '2022-07-14', 26000, 140),  
( 'In the Veldt', '2022-10-05', 14000, 160),  
( 'Coffee and Cake', '2022-10-28', 23000, 290),  
( 'Dance Into the Evening', '2022-11-16', 12000, 140),  
( 'Holiday Fire', '2022-12-10', 28000, 250),  
( 'Amapiano All the Way', '2022-12-25', 22000, 250),  
( 'Valentine Fire', '2023-02-15', 27000, 220),  
( 'Dance Into the Evening', '2023-03-03', 22000, 220),
```

```
('In the Veldt','2023-03-18',20000,260),  
( 'Fire in June','2023-06-08',25000,220),  
( 'Amapiano All the Way','2023-10-27',27000,230),  
( 'Kenton Festival','2023-12-22',27000,190),  
( 'Holiday Fire','2023-12-28',28000,270),  
( 'Valentine Fire','2024-02-24',27000,240),  
( 'Dance Into the Evening','2024-04-12',24000,200),  
( 'Coffee and Cake','2024-05-04',9000,120),  
( 'In the Veldt','2024-05-19',13000,300),  
( 'Amapiano All the Way','2024-06-21',23000,230),  
( 'Fire in June','2024-06-22',25000,240),  
( 'Durban Jol','2024-11-15',7000,220),  
( 'Holiday Fire','2024-12-19',28000,290);
```

```
INSERT INTO tblBookings (FestID, MusID, SetTime) VALUES
```

```
(1,1,'23:00:00'),  
(1,8,'13:45:00'),  
(1,9,'17:30:00'),  
(2,6,'21:00:00'),  
(3,2,'19:00:00'),  
(3,5,'22:15:00'),  
(3,7,'20:00:00'),  
(4,2,'22:15:00'),  
(4,8,'13:00:00'),  
(5,7,'14:30:00'),  
(6,9,'14:45:00'),  
(7,7,'23:00:00'),  
(8,3,'15:30:00'),  
(8,6,'15:00:00'),  
(8,7,'15:30:00'),  
(10,5,'15:15:00'),  
(10,9,'20:00:00'),  
(11,6,'17:30:00'),  
(12,3,'22:30:00'),  
(13,1,'21:45:00'),  
(13,5,'19:30:00'),  
(14,8,'20:45:00'),  
(15,1,'15:00:00'),  
(15,9,'23:15:00'),  
(16,8,'22:30:00'),  
(16,9,'17:45:00'),  
(17,2,'16:00:00'),  
(17,3,'21:30:00'),  
(17,9,'21:30:00'),  
(18,7,'18:00:00'),  
(19,2,'15:30:00'),  
(20,3,'18:00:00'),  
(20,6,'22:45:00'),  
(21,5,'13:00:00'),  
(21,6,'15:00:00'),  
(22,2,'16:15:00'),  
(22,5,'21:00:00'),  
(22,7,'14:45:00'),
```

```
(23,3,'16:45:00'),  
(24,5,'22:15:00'),  
(24,6,'23:15:00'),  
(24,8,'17:15:00'),  
(24,9,'16:30:00');
```

### **SAMusic\_MySQL.sql**

```
CREATE TABLE tblMusicians (  
MusID INT PRIMARY KEY AUTO_INCREMENT,  
StageName VARCHAR(60),  
Fee INT,  
Province VARCHAR(60),  
Solo BOOLEAN  
);
```

```
CREATE TABLE tblFestivals (  
FestID INT PRIMARY KEY AUTO_INCREMENT,  
FestName VARCHAR(60),  
FestDate DATE,  
Capacity INT,  
TicketCost INT  
);
```

```
CREATE TABLE tblBookings (  
FestID INT NOT NULL,  
MusID INT NOT NULL,  
SetTime TIME  
PRIMARY KEY (FestID, MusID)  
);
```

```
INSERT INTO tblMusicians (MusID, StageName, Fee, Province, Solo)  
VALUES  
(1,'Rebel',174651,'Gauteng',FALSE),  
(2,'Thabisile Ndlovu',188852,'Mpumalanga',TRUE),  
(3,'Flowers',127890,'Western Cape',FALSE),  
(4,'Samuel Ericson',80732,'Gauteng',TRUE),  
(5,'Easy K',167545,'Gauteng',TRUE),  
(6,'Kusuma Chapman',81282,'Western Cape',TRUE),  
(7,'Roger Hatfield',213307,'Limpopo',TRUE),  
(8,'Sound of Fury',186406,'Mpumalanga',FALSE),  
(9,'Springheeled Dassies',91651,'Gauteng',FALSE);
```

```
INSERT INTO tblFestivals (FestID, FestName, FestDate, Capacity,  
TicketCost) VALUES  
(1,'Valentine Fire','2022-02-20',27000,200),  
(2,'Dance Into the Evening','2022-06-04',17000,180),  
(3,'Fire in June','2022-06-10',25000,200),  
(4,'Dance Into the Evening','2022-07-14',26000,140),  
(5,'In the Veldt','2022-10-05',14000,160),  
(6,'Coffee and Cake','2022-10-28',23000,290),  
(7,'Dance Into the Evening','2022-11-16',12000,140),  
(8,'Holiday Fire','2022-12-10',28000,250),
```

```
(9, 'Amapiano All the Way', '2022-12-25', 22000, 250),  
(10, 'Valentine Fire', '2023-02-15', 27000, 220),  
(11, 'Dance Into the Evening', '2023-03-03', 22000, 220),  
(12, 'In the Veldt', '2023-03-18', 20000, 260),  
(13, 'Fire in June', '2023-06-08', 25000, 220),  
(14, 'Amapiano All the Way', '2023-10-27', 27000, 230),  
(15, 'Kenton Festival', '2023-12-22', 27000, 190),  
(16, 'Holiday Fire', '2023-12-28', 28000, 270),  
(17, 'Valentine Fire', '2024-02-24', 27000, 240),  
(18, 'Dance Into the Evening', '2024-04-12', 24000, 200),  
(19, 'Coffee and Cake', '2024-05-04', 9000, 120),  
(20, 'In the Veldt', '2024-05-19', 13000, 300),  
(21, 'Amapiano All the Way', '2024-06-21', 23000, 230),  
(22, 'Fire in June', '2024-06-22', 25000, 240),  
(23, 'Durban Jol', '2024-11-15', 7000, 220),  
(24, 'Holiday Fire', '2024-12-19', 28000, 290);
```

INSERT INTO tblBookings (FestID, MusID, SetTime) VALUES

```
(1, 1, '23:00:00'),  
(1, 8, '13:45:00'),  
(1, 9, '17:30:00'),  
(2, 6, '21:00:00'),  
(3, 2, '19:00:00'),  
(3, 5, '22:15:00'),  
(3, 7, '20:00:00'),  
(4, 2, '22:15:00'),  
(4, 8, '13:00:00'),  
(5, 7, '14:30:00'),  
(6, 9, '14:45:00'),  
(7, 7, '23:00:00'),  
(8, 3, '15:30:00'),  
(8, 6, '15:00:00'),  
(8, 7, '15:30:00'),  
(10, 5, '15:15:00'),  
(10, 9, '20:00:00'),  
(11, 6, '17:30:00'),  
(12, 3, '22:30:00'),  
(13, 1, '21:45:00'),  
(13, 5, '19:30:00'),  
(14, 8, '20:45:00'),  
(15, 1, '15:00:00'),  
(15, 9, '23:15:00'),  
(16, 8, '22:30:00'),  
(16, 9, '17:45:00'),  
(17, 2, '16:00:00'),  
(17, 3, '21:30:00'),  
(17, 9, '21:30:00'),  
(18, 7, '18:00:00'),  
(19, 2, '15:30:00'),  
(20, 3, '18:00:00'),  
(20, 6, '22:45:00'),  
(21, 5, '13:00:00'),  
(21, 6, '15:00:00'),
```

(22, 2, '16:15:00') ,  
(22, 5, '21:00:00') ,  
(22, 7, '14:45:00') ,  
(23, 3, '16:45:00') ,  
(24, 5, '22:15:00') ,  
(24, 6, '23:15:00') ,  
(24, 8, '17:15:00') ,  
(24, 9, '16:30:00') ;

## SECTION B

### MusicData.txt

Jenny Sampson;Rebel;4;2023 03 13  
Thabisile Ndlovu;;1;2022 09 26  
Suse Mai;Flowers;1;2012 11 27  
Samuel Ericson;;1;2019 10 19  
Kabelo Mthembu;Easy K;2;2011 07 26  
Kusuma Chapman;;3;2021 06 12  
Roger Hatfield;;3;2024 02 01  
Samuel Ericson;Running Energy;7355;6987  
Kusuma Chapman;Highway Wilderness;3113;841  
Jenny Sampson;Friday Cocktail;6127;4657  
Kusuma Chapman;Lighter Lola;9238;7206  
Samuel Ericson;No Chance;4986;4737  
Jenny Sampson;Discover Light;7855;0  
Kabelo Mthembu;Babona;9439;8118  
Suse Mai;Change The Fusion;1018;601  
Kabelo Mthembu;Walking With Gqom;8141;6187  
Thabisile Ndlovu;First Heart;7979;11011  
Samuel Ericson;Fearless Eyes;7587;5387  
Thabisile Ndlovu;Rulers of Eruption;3417;2631  
Thabisile Ndlovu;Shadow of Moments;652;98  
Suse Mai;Whispers of Mercy;2425;509  
Suse Mai;Losing Flow;3233;1261  
Kabelo Mthembu;Amuhle;2774;1526  
Thabisile Ndlovu;Dream Brave Life;4069;1953  
Suse Mai;Metalcorev Heart;3967;1388  
Kusuma Chapman;Amadansa;2961;59  
Kabelo Mthembu;Morning Starring;7887;5205  
Thabisile Ndlovu;Frozen Soul;826;710  
Thabisile Ndlovu;Highway Soul;85;34  
Thabisile Ndlovu;Needed Me;3040;912  
Suse Mai;Classic Flame;4074;2974  
Suse Mai;Absolute Train;7915;4512  
Thabisile Ndlovu;Purple Abyss;4030;3949  
Kabelo Mthembu;Heroic Yacht;4258;2470  
Jenny Sampson;Funky Mission;3668;3191  
Jenny Sampson;Fragments of Interest;6750;742  
Kusuma Chapman;Moments of Stories;881;749  
Jenny Sampson;Cardio Commission;4502;2296  
Kabelo Mthembu;Feel The Moves;6149;2829  
Kusuma Chapman;Money Fire;2814;1829  
Jenny Sampson;Sick Madness;5329;4849  
Kusuma Chapman;Your Haze;3396;679  
Kabelo Mthembu;Gqom Way;4319;1900  
Suse Mai;The Choices;1586;967  
Suse Mai;House of Secrets;175;66  
Suse Mai;Soft Killer;9921;5853  
Kabelo Mthembu;Crazy Masters;8216;1890