INDIAN SCHOOL MUSCAT

FIRST PRELIMINARY EXAMINATION

JANUARY 2019

SET A

CLASS XII

Marking Scheme – SUBJECT [THEORY]

Q.NO.	Answers	**Marks**
1a	stdio.h, string.h ½ m each for the correct answer	**1**
b	Assignment operator, relational operator, logical operator & conditional operator 1/2m each for the correct operator	**2**

c	Rewrite the following C++ code after removing any/all Syntactical Error(s) with each correction underlined.
	#include "iostream.h" → <iostream.h>
	class MEMBER
	{
	int Mno;
	float Fees;
	public:
	void MEMBER() →MEMBER
	{ Mno=0;}
	void Register ( )
	{cin>>Mno>>Fees;}
	void Display( )
	{cout<<Mno<<" : "<<Fees<<endl;}
	};
	void main( )
	{
	MEMBER switch; → Switch;
	Register(); → Switch.Register();
	Switch.Display();
	}
	½ m each error finding & correcting
		2

d	25 35 45 17 ½ m each for the correct answer	**2**
e	10#45#14# 18#77#22# 1½ m each line of correct answer	**3**
f	Option (iii) Value for x → Maximum : 6 & minimum : 4	**2**

	1m for correct output and 1 m for maximum & minimum value	
2 a	1 M for correct explanation and 1 m for example	**2**

b	class Inter
	{ int m;
	public:
	Inter(int y) { m = y; }// **Function 1**
	Inter (Inter & t);// **Function 2**
	~Inter( ) { }// **Function 3**
	};
	(i) a) Inter obj(45);
	b) Destructor
	(ii) Inter (Inter & t)
	{ m=t.m;}
	1 m each for (i) & (ii)
	OR
	1 M for correct explanation and 1 m for example
		2

c	(½ Mark for declaring class header correctly) (½ Mark for declaring data members correctly) (1 Mark for defining NewSports() correctly and ½ Mark for taking inputs) (½ Mark for constructor) (½ Mark for defining DisplaySports() correctly) (½ Mark for correctly closing class declaration with a semicolon ;)	**4**
d	(i) Base class University and derived class Department (ii) name,dname,HOD,no_of_students,vc,x (iii) Multilevel (iv) 106 bytes 1 m each for answer correct answer (i) to (iv) **OR** (1 Mark for correct syntax for derived class header) (½ Mark for writing public :) (½ Mark for correct declaration of data members) (1 Mark for defining the function INPUT( )) (1 Mark for defining the function OUTPUT( ))	**4**
3 a	(½ Mark for correct loops) (1 Mark for logic) (½ Mark for output)	**2**
b	(1 Mark for correct loop) (2 Marks for correct logic)	**3**
c	1 Mark for writing correct formula OR substituting formula with correct values) (1 Mark for correct step calculations) (1 Mark for final correct address)	**3**
d	(1 Mark for checking if Queue is Empty) (1 Mark for checking Declaring) (2 *M*ark for deleting the value in the Queue)	**4**
e	AB+CDE-^F+*G- OR 20	**2**

	1 m for correct answer & 1 m for showing the status	
4 a	(½ Mark for opening file correctly) (½ Mark for reading from the file) (½ Mark for checking the word starting with 't') (½ Mark for displaying the word) OR (½ Mark for opening file correctly) (½ Mark for reading from the file) (½ Mark for checking the lines not starting with 'A' and counting it) (½ Mark for displaying the count)	**2**
b	(1 Mark for opening correctly) (1 Mark for checking) (1 Mark for output into the file)	**3**
c	½ M each for the correct answer	**1**
5 a	1 m for correct definition and 1 m for example	**2**
b	1 m each for correct query for (i) to (iv) ½ m each for correct output (v) to (viii)	**6**
6 a	1 m for stating the law and 1 m for verifying	**2**
b	2 m for correct logic diagram	**2**
c	A'BC'+A'BC+ABC'+ABC 1 M for the correct answer	**1**
d	(½ Mark for drawing K-Map and correctly plotting 1s in the given cells) (2 Mark each for groupings) (½ Mark for writing final expression in reduced/minimal form)	**3**
7 a	Any 2 correct media ½ m each	**1**
b	One advantage and one disadvantage ½ m each	**1**
c	GPRS - General Packet Radio Service GSM - Global System for Mobile communications WLL - Wireless local loop PPP – Point to point protocol ½ m each for the correct answer	**2**
d	1 mark kind of data & 1 m for its use	**2**
e	1 m each for the correct answer for parts (i) to (iv)	**4**