INDIAN SCHOOL MUSCAT

FIRST PRELIMINARY EXAMINATION

JANUARY 2019

SET C

CLASS XII

Marking Scheme – SUBJECT [THEORY]

Q.NO.	Answers	**Marks**
1a	**Valid identifiers : While, Float,Amount2, _Counter** ½ m each for the correct answer	**2**
b	fstream.h, string.h 1/2m each for the correct operator	**1**

c	Rewrite the following C++ code after removing any/all Syntactical Error(s) with each correction underlined.
	Typedef Count int; → typedef int Count
	Void main() → void main()
	{
	Count C;
	cout<<"Enter the count:";
	cin>>C;
	for (K = 1; K<=C; K++) → int K
	cout<< C "*" K <<endl; → cout<<C<<"*"<<endl;
	}
	½ m each
		2

d	35&4 35#9 1 m each line of correct answer	**2**
e	2Chandigarh 6andigarh 10digarh 1 m for each line of correct answer	**3**
f	Option (iii) Value for x → Maximum : 2 & minimum : 0 1m for correct output and 1 m for maximum & minimum value	**2**
2 a	1 M for correct explanation and 1 m for example	**2**

b	class Science
	{
	char Topic[20];
	int Weightage;
	public:
	Science ( ) //Function 1
	{
		2

	strcpy (Topic, "Optics");
	Weightage = 30;
	cout<<"Topic Activated";
	}
	~Science( ) //Function 2
	{
	cout<<"Topic Deactivated";
	}
	Science(Science & S); //Function 3
	};
	i. Function 1 default constructor and function 2 is destructor gets invoked at the end of the class scope.
	ii. Science (Science & S)
	{ strcpy (Topic, S.Topic);
	Weightage = S.Weightage;
	}
	1 m each for (i) & (ii)
	OR
	1 M for correct explanation and 1 m for example	

c	(½ Mark for declaring class header correctly) (½ Mark for declaring data members correctly) (½ Mark for FixExhibit ( )) (2 Mark for defining Register() and ViewAll() correctly) (½ Mark for correctly closing class declaration with a semicolon ;)	**4**
d	1 m each for 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 and substituting formula with correct values) (1 Mark for correct step calculations) (1 Mark for final correct address)	**3**
d	(1 Mark for checking if stack/queue is Empty) (1 Mark for input correct values) (2 *M*ark for inserting/pushing the value in the Queue/stack)	**4**
e	AB/C^DE-* OR 40	**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 counting the word 'My/Me') (½ Mark for displaying the count) OR (½ Mark for opening file correctly) (½ Mark for reading from the file) (½ Mark for checking the lines 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	a. Candidate key – Item b. Degree – 5 cardinality – 6 1 M each for correct answer	**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	(M+N+P') . (M+N'+P). (M'+N+P), (M'+N+P'). (M'+N'+P') 1 M for the correct answer	**1**
d	(½ Mark for drawing K-Map and correctly plotting 1s in the given cells) (2 Mark for correct groupings) (½ Mark for writing final expression in reduced/minimal form)	**3**
7 a	(1 Mark for writing correct Answer) (1 Mark for writing correct Justification to prevent Spam)	**2**
b	For correct answer 1 M	**1**
c	For correct answer 1 M	**1**
d	(i) PPP – Point to point protocol (ii) HTTP Hyper text transfer protocol (iii) XML Extensible markup language (iv) ARPANET Advanced Research Projects Agency Net ½ m each for the correct answer	**2**
e	1 m each for the correct answer for parts (i) to (iv)	**4**