

**INDIAN SCHOOL MUSCAT**

**FIRST PRELIMINARY EXAMINATION**

**JANUARY 2019**

<b>SET B</b>
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**CLASS XII**

**Marking Scheme – SUBJECT [THEORY]**

Q.NO.	Answers	Marks
<b>1a</b>	iostream.h, ctype.h ½ m each for the correct answer	<b>1</b>
<b>b</b>	2 mark for any two valid differences.	<b>2</b>
<b>c</b>	Rewrite the following C++ code after removing any/all Syntactical Error(s) with each correction underlined. <pre> #include&lt; iostream.h&gt; class game { int gameid; char gcode; game(int x)      → must be in public section {cout&lt;&lt;"constructor"; x=gameid; } public: void begin() {cin&gt;&gt;gameid; gets(gcode);   → cin&gt;&gt;gcode; } void game::show() → void show() {cout&lt;&lt;gameid&lt;&lt;":"&lt;&lt;gcode;}}; void main( ) { game obj;   obj.begin();   game.show();   → obj.show() }                     </pre> ½ m each error finding & correcting	<b>2</b>
<b>d</b>	9:24:74 10:34:84 1½ m each line of correct answer	<b>3</b>
<b>e</b>	Option (ii) Value for score → Maximum : 34 & minimum : 30 1m for correct output and 1 m for maximum & minimum value	<b>2</b>
<b>f</b>	1Needle&Thread 9e&Thread	<b>2</b>

	6ead 1 m for first line and ½ m each for 2 & 3 line/	
<b>2 a</b>	1 M for correct explanation and 1 m for example	<b>2</b>
<b>b</b>	(i) a) Annual obj(45); b) Destructor (ii) Annual ( Annual & A ) { m=A.m;} 1 m each for (i) & (ii) <b>OR</b> 1 M for correct explanation and 1 m for example	<b>2</b>
<b>c</b>	(½ Mark for declaring class header correctly) (½ Mark for declaring data members correctly) (1 Mark for defining Accept() correctly and ½ Mark for taking inputs & evoking Calprice() ) (½ Mark for constructor) (½ Mark for defining ShowBill() correctly) (½ Mark for correctly closing class declaration with a semicolon ; )	<b>4</b>
<b>d</b>	1 m each for answer correct answer for (i) to (iv) <b>OR</b> (1 Mark for correct syntax for derived class header) (½ Mark for writing visibility mode ) (½ Mark for correct declaration of data members ) (1 Mark for defining the function Enter( ) ) (1 Mark for defining the function Display( ) )	<b>4</b>
<b>3 a</b>	(½ Mark for correct loops) ( 1 Mark for logic) ( ½ Mark for output )	<b>2</b>
<b>b</b>	(1 Mark for correct loop) (2 Marks for correct logic)	<b>3</b>
<b>c</b>	(1 Mark for writing correct formula and substituting formula with correct values) (1 Mark for correct step calculations) (1 Mark for final correct address)	<b>3</b>
<b>d</b>	(1 Mark for checking if Queue is Empty) (1 Mark for checking Declaring) (2 Mark for deleting/inserting the value in the Queue)	<b>4</b>
<b>e</b>	True False ! && False True &&    OR False 1 m for correct answer & 1 m for showing the status	<b>2</b>
<b>4 a</b>	(½ Mark for opening file correctly) (½ Mark for reading from the file) (½ Mark for check for words of length more than 7 letters ) (½ Mark for displaying the word) <b>OR</b> (½ Mark for opening file correctly)	<b>2</b>

	(½ Mark for reading from the file) (½ Mark for checking for the letter e or E and counting it) (½ Mark for displaying the count)	
<b>b</b>	(1 Mark for opening correctly) (1 Mark for checking) (1 Mark for display)	<b>3</b>
<b>c</b>	1 M for the correct answer	<b>1</b>
<b>5 a</b>	1 m for correct definition and 1 m for example	<b>2</b>
<b>b</b>	1 m each for correct query for (i) to (iv) ½ m each for correct output (v) to (viii)	<b>6</b>
<b>6 a</b>	2 m for verifying using truth table	<b>2</b>
<b>b</b>	2 m for correct logic diagram	<b>2</b>
<b>c</b>	$(A+B+C)$ , $(A+B+C')$ , $(A+B'+C')$ , $(A'+B+C)$ , $(A'+B'+C')$ 1 M for the correct answer	<b>1</b>
<b>d</b>	(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)	<b>3</b>
<b>7 a</b>	PAN 1 m for correct answer	<b>1</b>
<b>b</b>	Any 2 characteristics ½ m each	<b>1</b>
<b>c</b>	i. PPP Point to point protocol ii GSM Global System for Mobile communications iii XML Extensible markup language iv HTTP Hyper Text Transfer protocol ½ m each for the correct answer	<b>2</b>
<b>d</b>	1 mark for definition & 1 m for correct protocol	<b>2</b>
<b>e</b>	1 m each for the correct answer for parts (i) to (iv)	<b>4</b>