

**ISEO 2013 Hydrosphere and Atmosphere Theory, Mysuru, India,  
Correct Answers and marks**

<b>Question number</b>	<b>Subquestion number</b>	<b>Correct answer</b>	<b>Marks</b>
<b>1</b>	<b>(i)</b>	<b>A</b>	<b>1</b>
<b>1</b>	<b>(ii)</b>	<b>B</b>	<b>2</b>
<b>1</b>	<b>(iii)</b>	<b>C</b>	<b>2</b>
<b>2</b>	<b>(i)</b>	<b>B</b>	<b>2</b>
<b>2</b>	<b>(ii)</b>	<b>D</b>	<b>2</b>
<b>2</b>	<b>(iii)</b>	<b>D</b>	<b>1</b>
<b>3</b>	<b>(i)</b>	<b>T</b>	<b>1.25</b>
<b>3</b>	<b>(ii)</b>	<b>F</b>	<b>1.25</b>
<b>3</b>	<b>(iii)</b>	<b>T</b>	<b>1.25</b>
<b>3</b>	<b>(iv)</b>	<b>F</b>	<b>1.25</b>
<b>4</b>	<b>-</b>	<b>B</b>	<b>2</b>

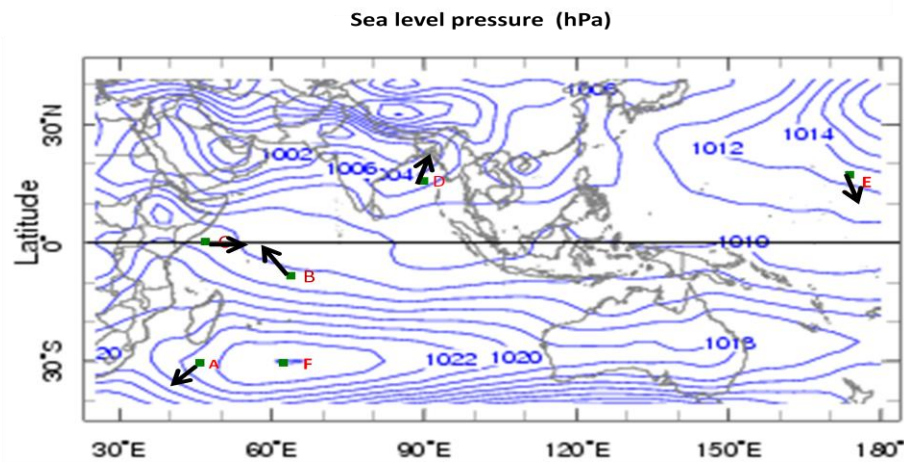
<b>Question No.</b>	<b>Subquestion No.</b>	<b>Answer</b>	<b>Answer</b>	<b>Answer</b>	<b>marks</b>
5	-	A	Ionosphere	Aurorae	0.5+0.5
5	-	B	Mesosphere	Noctilucent clouds	0.5+0.5
5	-	C	Stratopause	---	0.5+0.5
5	-	D	Stratosphere	UV absorption by ozone	0.5+0.5
5	-	E	Tropopause	Top of cumulonimbus clouds	0.5+0.5
5	-	F	Troposphere	Cirrus clouds, cumulus clouds	0.5+0.5
6	(i)	A	-	N <sub>2</sub>	1
6	(i)	B	-	CO <sub>2</sub>	1
6	(i)	C	-	H <sub>2</sub>	1
6	(i)	D	-	O <sub>2</sub>	1
6	(ii)	-	-	2000	1

<b>Question No</b>	<b>Subquestion No.</b>	<b>answer</b>	<b>marks</b>
7	-	D	2
8	-	B and D	1 +1
9	-	A and D	2+2
10	A	Cumulus congestus	0.5
10	B	Cumulonimbus	0.5
10	C	Cirrus	0.5
10	D	Altostratus, altocumulus	0.5
11		See figures below	8 X 0.5 (For each correct arrow 0.5)
12	-	$2.18 \times 10^{16} \text{ m}^3$	Correct Area 2 Multiply by 70% 2 mark Volume 1marks
13	-	0.004 °C	2

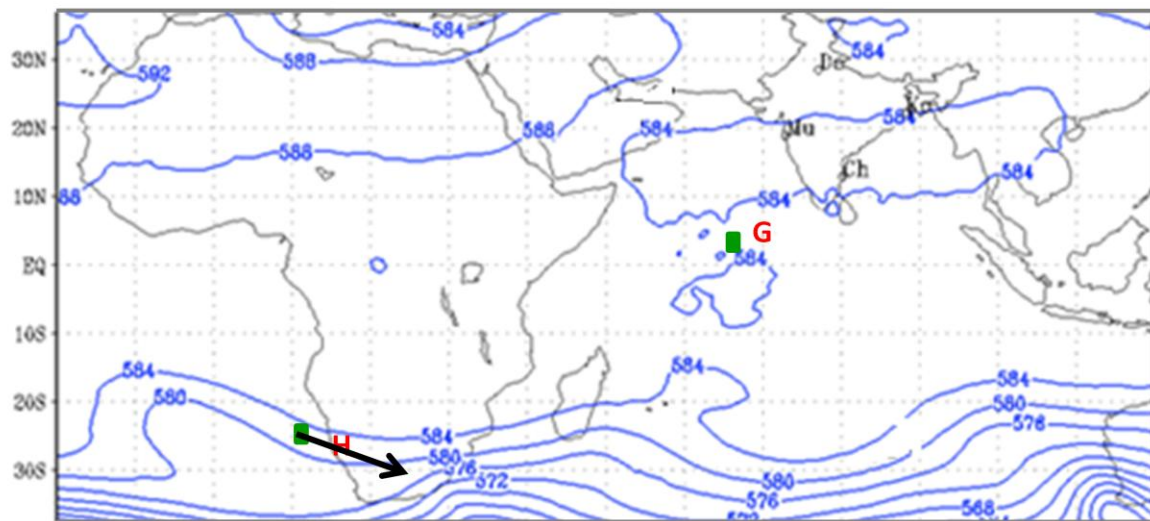
14	-	B	2
15	-	B	1

Question no.	Subquestion No	Answer	Marks
16	-	$1.26 \times 10^{15} \text{ m}^3$	2
17	-	Left El Nino Right non-El Nino	1 + 1
18	(i)	+	1
18	(ii)	+	1
18	(iii)	-	1
19		D	2

**Total marks**



At F, wind is zero, so no direction can be given



At G wind is zero, so no direction