



19	256.8	27.3	94.4	-178	-42	-30	-5	079	15	<b>9</b> 08015
20	257.5	26.9								
21	258.4	26.5	104.4	-205	-42	-27	0	090	14	<b>10</b> 09014

Question 3 (15mks)

PPAA 59061 65202

55285 06516 09014

77999 = (7.5mks)

PPBB 59061 65202

90/23 25010 20005 13507

907// 06522 = (7.5mks)

Question 4 (10mks)

TTAA 80121 65202

TTAA→ Temperature message Part A

80121→ 80: is decoded as 30<sup>th</sup> day of the month

i.e. 80-50 (50 is add to the actual day of the ascent because wind speed is measured in knots)

12: represents 1200GMT

1: represents the 100hpa (i.e. the last pressure level where wind was reported)

65202→ 65: West Africa Block Number

202: Station Number for Oshodi

Pressure Level Indicator	Pressure (hpa)	GPH (m)	Air Temperature (°C)	Dew Point Temperature (°C)	Wind Direction (°)	Wind Speed (KT)
99	1015	sfc	32.4	24.4	260	05
00	1000	150	28.6	23.6	220	12
92	925	839	23.0	20.5	215	04
85	850	1573	19.4	15.8	160	02
70	700	3227	11.2	4.2	065	14
50	500	5940	-4.9	-19.9	105	15
40	400	7660	-16.1	-30.1	090	16
30	300	9760	-31.1	-40.1	095	13
25	250	11030	-40.3	-53.3	085	04
20	200	12510	-52.5	-57.5	010	09
15	150	14310	-68.5	-72.9	345	08
10	100	16650	-82.9	-85.3	065	08

88999→ 88: Tropopause level indicator

999: No data available

77999→ 77: Maximum wind speed level indicator

999: No data available

=> End of message

Question 5 (20mks)

TTBB 80128 65202

TTBB→ Temperature Message Part B

80128→ 80: Decoded as 30<sup>th</sup> day of the month (i.e. 80 – 50 = 30)

12: 1200GMT (i.e. the approximated time of ascent in GMT)

8: Ignored

65202→ 65: West African Block Number

202: Station Number of Oshodi

Significant Pressure Level Indicator	Pressure (hpa)	Air Temperature (°C)	Dew Point Temp (°C)
00	1015	32.4	24.4
11	1003	29.8	23.8
22	936	23.6	21.2
33	926	23.0	20.5
44	889	20.2	18.6
55	880	19.6	17.8
66	872	20.2	17.4
77	854	19.4	16.0
88	837	19.8	15.1
99	737	13.8	5.8
11	715	12.2	8.3
22	694	10.8	3.8
33	646	5.4	2.3
44	600	1.6	-3.2
55	585	-0.1	-3.3
66	417	-14.1	-33.1
77	403	-15.9	-27.9
88	393	-16.7	-39.7
99	367	-20.3	-29.3
11	334	-25.3	-59.3
22	292	-32.7	-38.7
33	255	-39.1	-53.1
44	101	-82.5	-84.9
55	100	-82.9	-85.3
21212	Indicator, Showing	The Start Of	Wind Data
Significant Pressure Level Indicator	Pressure (hpa)	Wind Direction (°)	Wind Speed (KT)
00	1015	260	05
11	996	220	13
22	983	220	12
33	951	205	07
44	933	225	04
55	919	210	04
66	800	070	07
77	771	090	08
88	674	065	16
99	622	080	17
11	600	085	16
22	498	105	15
33	430	085	16
44	277	110	09
55	252	085	03
66	228	015	03
77	217	355	02

88	204	360	08
99	200	010	09
11	191	360	10
22	164	350	09
33	161	340	09
44	122	360	04
55	112	035	02
66	109	095	01
77	100	065	08

31313→ Indicator for the actual time of ascent

81130→ 8: constant

11.30GMT

41414→ Cloud group indicator

85538→ 8: constant

5: amount of low cloud in the sky

5: strato-cumulus

3: auto-cumulus

8: high cloud

=→ end of message.