IESO 2018 Thailand: Solutions to Practical Tests

Practical Test 1

1. E
2. C
3. D
4. D
5. D
6. B
7. D
8. A
9. E
10. D
11. E
12. D
13. C
14.
    a. D
    b. A
    c. E
15.
    a. E
    b. D
    c. F
16. D
17. C, E
18. C

Practical Test 2

1. A
2. D
3. See chart below
4. A
5. D
6. See chart below
7. A
8. D
9. See chart below

Spots	Station 1	Station 2	Station 3
1	328/43 NE	264/28 NW	290/23 NE
2	314/40 NE	250/30 NW	305/23 NE
3	341/37 NE	269/35 N	300/19 NE
4	325/42 NE	272/33 N	293/26 NE
5	323/47 NE	272/47 N	278/24 N
6	323/34 NE	240/30 NW	298/34 NE
7	321/38 NE	288/33 NE	294/26 NE
8	328/40 NE	288/38 NE	299/27 NE
9	322/40 NE	273/27 N	305/30 NE
10	306/47 NE	256/23 NW	288/28 NE
11	318/44 NE	282/25 NE	315/23 NE
12	315/52 NE	279/30 N	291/25 NE
13	330/52 NE	277/43 N	298/18 NE
14	333/46 NE	272/40 N	305/20 NE
15	316/33 NE	282/35 NE	296/25 NE
16	322/46 NE	291/36 NE	307/28 NE
17	303/40 NE	280/40 NE	305/24 NE
18	290/40 NE	272/30 N	303/26 NE

spot number is correspond to student' exam code

Practical Test 3

10. 35 * sin (dip angle of station 2)
11. A
12. A

Practical Test 4

1. $V \leq 10$ cm^3 (any answer less than this value within the realm of possibility is correct) – 3 marks
2. V g (The answer should be the same as Q1 since the mass of the water is the same as of ice and water density is 1 g/cm^3) – 1 mark. The volume of the ice before melting is V/0.92 cm^3 – 1 mark
3. The increase in water volume is 0 cm^3 – 3 marks (give 0.5 mark for an answer < 1 cm^3)
4. A – 1 mark
5. A – 1 mark
6. C – 1 mark
7. B, C, A – 1 mark each (total 3 marks)
8. B, C, A – 1 mark each (total 3 marks)
9. Y – 3 marks