



EAST AFRICAN SCHOOL OF AVIATION EXAMINATION

FINAL EXAM

IATA/SAFETY SECTION

SUBJECT: CRP – 5 COMPUTER

Stream: Flight Dispatch No.21 & 22

Duration: 2 Hrs

DATE: 14/09/2016

TIME: 2.00 – 4.00 PM

INSTRUCTIONS TO CANDIDATE:

1. This paper consists of **THREE (3)** Printed pages.
2. Answer the questions as per the instructions given
3. Examination rules and regulations shall apply

1. Heading(1 mark)
2. Track(1 mark)
3. Drift(1 mark)
4. Track error angle(1 mark)
5. Groundspeed(1 mark)
6. CAS(1 mark)

COMPLETE THE FOLLOWING.**a. (8 marks).**

| Groundspeed(kt) | Distance(nm) | Time(min) |
|-----------------|--------------|-----------|
| | 46.5 | 16.5 |
| 182 | 510 | |
| 145 | | 15 |
| 260 | | 77 |

b. (8 marks)

| Fuel flow | Time | Fuel Used |
|----------------|-------------|-------------|
| 140litres/hr | 1h 20 min | |
| 2120 kg/hr | | 570 kg |
| | 3hh 25 min | 400 Imp Gal |
| 8.7 Us Gall/hr | 2 hr 15 min | |

c. (8 marks)

| Nautical Miles | Statute Mile | Kilometer |
|----------------|--------------|-----------|
| 88 | | |
| | 27 | |
| | | 87 |
| | 147 | |

d. (16 marks)

| Litres | Imp Gall | US Gall | SG | Kg | lb |
|--------|----------|---------|-----|------|----|
| 1000 | | | .78 | | |
| | | | .80 | 1000 | |

e. (5 marks)

| CAS | Pressure Altitude | SAT(C) | TAS |
|-----|-------------------|--------|-----|
| 140 | 10000 | -10 | |
| 175 | 8000 | +5 | |
| 220 | 15000 | -22 | |
| 300 | 30000 | -40 | |
| 180 | 12500 | -25 | |

f. (8 marks)

| Mach No | SAT(C) | TAS |
|---------|--------|-----|
| .82 | -50 | |
| .66 | | 375 |
| | -38 | 425 |
| .77 | -60 | |

g. (5 marks)

| Ind Alt | SAT(C) | True Alt |
|---------|--------|----------|
| 10000 | -20 | |
| 18000 | -30 | |
| 6000 | +10 | |
| 27000 | -50 | |
| 21500 | -35 | |

h. (10 marks)

| Pressure Alt | SAT(C) | Density Altitude | |
|--------------|--------|---------------------|------------------|
| | | Navigation computer | Formula Solution |
| 10000 | +15 | | |
| 27000 | -40 | | |

i. (6 marks)

| HDG(T) | W/V | TRACK(T) | TAS | GS |
|--------|-----|----------|-----|-----|
| 209 | | 219 | 150 | 134 |
| 270 | | 266 | 180 | 202 |
| 069 | | 079 | 138 | 124 |

j. (12 marks)

| HDG(T) | W/V | TRACK(T) | TAS | GS |
|--------|--------|----------|-----|----|
| | 040/40 | 155 | 140 | |
| | 280/27 | 226 | 94 | |
| | 320/14 | 198 | 136 | |
| | 190/52 | 284 | 260 | |

k. (8 marks)

| HDG(T) | W/V | TRACK(T) | TAS | GS |
|--------|--------|----------|-----|----|
| 273 | 230/40 | | 150 | |
| 181 | 150/30 | | 90 | |
| 054 | 350/28 | | 88 | |
| 084 | 255/55 | | 210 | |