



# **EAST AFRICAN SCHOOL OF AVIATION**

## **FINAL EXAMS**

**EAST AFRICAN SCHOOL OF AVIATION**

**SUBJECT: AVIATION SAFETY AND SECURITY**

**FLIGHT DISPATCH 23**

**COMMUNICATIONS AND RADIO TELEPHONY**

**Duration: 2 hrs**

**DATE: 11/11/2016**

**TIME:1400 – 1600**

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### **INSTRUCTION TO CANDIDATES**

1. Attempt **ALL** Questions

**1. Clearance limit is defined as;**

- a. Flight level to which an aircraft is given ATC clearance.
- b. The time at which ATC clearance expires
- c. The point to which aircraft is given ATC clearance
- d. The height below which you will hit the first obstacle

**2. The instruction from ATC to an aircraft to abandon its take off includes phrase:**

- a. CANCEL TAKE OFF IMMEDIATELY
- b. STOP IMMEDIATELY
- c. ABORT ABORT
- d. YOU WON'T LIKE THIS

**3. The term 'DISREGARD' means:**

- a. Ignore
- b. Cancel the last clearance
- c. You have not been cleared
- d. Pay no attention to what I say

**4. The message 'CHECK' to an aircraft means that you should:**

- a. Confirm that you received and understood the last message
- b. Pass the required information to ATC
- c. Stay where you are
- d. Examine a system or a procedure

**5. The call sign suffix of a station providing clearance delivery would be:**

- a. CLEARANCE
- b. GROUND
- c. DELIVERY
- d. PRESTO

**6. The term 'CORRECTION' is used when:**

- a. Readback of a message is incorrect
- b. Readback of a message is correct
- c. The message has to be deleted
- d. An error has been made in the transmission and the correct version is.....

**7. The state of urgency is defined as a condition:**

- a. Of being threatened by serious and or imminent danger and of requiring immediate assistance
- b. Concerning the safety of an aircraft or other vehicle or of some person on board but does not require immediate assistance.
- c. Where an aircraft requires an immediate take off.
- d. Where use of pan mayday is required

**8. If a transponder is unserviceable prior to an IFR departure, then the pilot;**

- a. has to cancel the flight
- b. May proceed with the flight with ATC permission
- c. has to fly low level only
- d. may fly for another company

**9. The response to general call from ATC IS FOR THE AIRCRAFT TO:**

- a. Respond in alphabetic order.
- b. Respond in numerical order
- c. Give no response.
- d. request a repeat of the message

**10. Following a communication failure the time at which the aircraft should aim to leave the hold is:**

- a. Within 10 minutes of EAT or ETA
- b. Within 30 minutes of EAT or ETA
- c. EAT or ETA
- d. Before it runs out of fuel

**11. The call 'PAN PAN MEDICAL' indicates that:**

- a. The flight is concerning a protected medical transport pursuant to 1949 Geneva convention
- b. There is a concern about the safety of an aircraft or other vehicle or apron on board but does not require immediate assistance.
- c. one of the crew has fallen ill
- d. the crew require medical aid on the pan

**12. An urgency message requires the following information:**

- a. Name of the station being addressed, aircraft call sign, nature of urgency condition, commander's intention, position, level, and heading.
- b. call sign, position, route, destination, endurance

c. Name of the station being addressed, aircraft call sign, present position, level ETA destination.

d. captains number, rank and name.

13. Readability2 means your transmission is:

a. readable but with difficulty

b. readable

c. readable now and then

d. two way communication has been established

**14. How does ATC report RVR?**

a. in kilometers along the final approach

b. in meters at touchdown, mid-point and stop- end-of a runway

c. in nautical miles

d. in feet and inches

**15. The procedure to be followed in the event of communication failure after departure for an aircraft receiving radar vectors is:**

a. maintain the last cleared level and speed for 20 minutes and then continue with the flight plan

b. hold cleared level for 7 minutes and the continue I accordance with current flight plan

c. land at the nearest aerodrome

d. make a 90 degrees turn and depart controlled airspace

**16. An altitude of 13,500 feet would be spoken as:**

a. THIRTEEN THOUSAND FIVE HUNRED FEET

b. ONE THREE THOUSAND FIVE ZERO ZERO FEET

- c. ONE THREE THOUSAND FIVE HUNDRED FEET
- d. NONE OF THE ABOVE

**17. What cannot be left out of a position report?**

- a. callsign, flight level and time
- b. callsign, position and time
- c. position time, flight level, next position and ETA
- d. your signature

**18. The call sign suffix for an airfield without radar would be?**

- a. APPROACH
- b. CENTER
- c. INFORMATION
- d. RADIO

**19. The definition of instruction 'MONITOR' is?**

- a. listen out on the frequency
- b. establish communications on frequency
- c. watch out on visual signs on frequency
- d. you are being watched

**20. The phrase 'BRAKING CO-EFFICIENT 20' from ATC means that braking action is?**

- a. poor
- b. medium to poor

- c. medium
- d. slippery

**21. Your reply to the message 'REPORT FLIGHT CONDITIONS' should be:**

- a. VFR/IFR
- b. TURBULENT/SMOOTH
- c. NOT BAD/SO SO
- d. VMC/IMC

**22. If you are repeating a word or a message for clarity then you should use the phrase:**

- a. words twice
- b. i repeat
- c. i say again
- d. DITTO

**23. The abbreviation of a control zone is:**

- a. CTR
- b. CTZ
- c. ATZ
- d. CTA

**24. The call sign of a station controlling surface vehicles in the maneuvering area would be:**

- a. TOWER

- b. CLEARNCE
- c. GROUND
- d. APRON

**25. The phrase to use when you want to say 'yes' is:**

- a. AFFIRMATIVE
- b. ROGER
- c. WILCO
- d. AFFIRM

**26. When asking for a repeat of a message you should say:**

- a. WORDS TWICE
- b. SPEAK SLOWER
- c. SAY AGAIN
- d. REPEAT MESSAGE

**27. The selection of code 7500 on the transponder means:**

- a. loss of communication
- b. distress
- c. urgency
- d. hi-jacking

**28. The QCODE true bearing a station is:**

- a. QDR
- b. QFE
- c. QUJ
- d. QTE



**29. The call from an aircraft for missed approach is:**

- a. OVERSHOOTING
- b. TOUCH AND GO
- c. GOING AROUND
- d. ABORTING

**30. The correct read back of the frequency 123.725 on 25 KHz spacing is:**

- a. 123.725
- b. 123.7
- c. 12372
- d. 123.72

**31. The abbreviation AFIS stands for?**

- a. aerodrome flight information service
- b. automatic flight information service
- c. aircraft fire indication system
- d. automatic flight instrument system

**32. The full range of VHF frequencies used for communications are:**

- a. 3 to 30 MHz
- b. 88 to 108 MHz
- c. 108.0 to 139.95MHz
- d. 118 to 136.975MHz

**33. Time given in aeronautical communications is?**

- a. LMT
- b. UTC
- c. day light saving time
- d. in minutes only.

**34. The QCODE meaning magnetic track towards a facility is:**

- a. QNH
- b. QDR
- c. QDM
- d. QUJ

**35. MAYDAY MAYDAY MAYDAY is pronounced when?**

- a. an aeroplane suffers an engine failure
- b. a cabin crew fall ill
- c. aircraft commander is tired
- d. none of the above

PART B(35 MARKS)

ANSWER QUESTION **ONE** AND ANY **OTHER TWO**  
QUESTIONS

1. Study the following SITA message and answer the questions that follow

**QD LHRFFKQ JNBOOBA BAKKDAR EBBKKQU**  
**NBOCMKL 92230**  
**MVT**  
**KQ 432/09 . 5Y BET EBB .**  
**AD 2205/2217 EA 0230 FCO**  
**DL21/0045**  
**SI BAD WX**  
**PAX 90/125**

- i. The message was sent from the Kenya airways commercial department in Nairobi  
(**True or False**)
- ii. Is the priority appropriate for the text (**Yes/No**)
- iii. Mention **three** important items in the message that are **missing**
- iv. Indicate the meaning of the codes **DL 21/0045** as appears in line six
- v. The flight KQ 432 originated from either **NBO** or **EBB** or **FCO** ( choose the correct one)
- vi. Decode the **5<sup>th</sup> line** of the message i.e. **AD 2205/2217 EA 0230 FCO**  
**(15 marks)**

2. a) List four flights that are exempted from sending met information (6mks)  
b) Explain the available methods used in the allocation of aircraft call sign (4mks)

3. a) Define the following terminologies **(8mks)**

- I. Distress
- II. Urgency
- III. AFTN
- IV. Station

- b) How should letters **B** and **C** be pronounced phonetically? **(2mk)**

4. Explain what is breakdown of communications between an aircraft and a ground station and the corrective actions to be taken **(10 mks)**