

EAST AFRICAN SCHOOL OF AVIATION

AVIATION SAFETY AND SECURITY

FLIGHT DISPATCH 24

FINAL EXAMINATION

COMMUNICATIONS AND RADIO TELEPHONY(70mks)

Time allowed: 2hrs

GENERAL INSTRUCTIONS AND INFORMATION

1. CONSIST OF PART A AND PART B

2. FOLLOW PART SPECIFIC INSTRUCTIONS WHILE ANSWERING QUESTIONS

PART A-ATTEMPT ALL QUESTIONS (50MKS)

1. The priority message 'LINE UP' is
 - A. greater than 'REQUEST QDM'
 - B. less than 'CLEAR TO LAND'
 - C. same as 'TAXI TO HOLDING POINT RUNWAY 20'

2. Fill in the missing data(8MKS)

Frequencies	Frequency Bands	Wavelength	Facilities
3-3kHz		100km-10km	Very long range navigation
30-300kHz		10km-1km	NDB, Decca, Loran-C
300-3000kHz		1km-100m	NDB
3-30MHz		100m-10m	HF/RT
30-300MHz		10m-1m	VHF/RT, VDF, VOR, ILS, MARKER BEACONS
300-3000MHz		1m-10cm	ILS GLIDE PATH, DME,
3-30Ghz		10cm-1cm	DOPPLER RADAR, AWR, PAR
30-30Ghz		1cm-1mm	AIRFIELD SURFACE RADAR

9. The accuracy of a class 'B' VDF bearing is:

- A. $\pm 10^\circ$
- B. $\pm 2^\circ$
- C. $\pm 15^\circ$
- D. $\pm 5^\circ$

10. The accuracy of a Class 'A' VDF bearing is:

- A. $\pm 2^\circ$
- B. $\pm 5^\circ$
- C. $\pm 10^\circ$
- D. $\pm 3^\circ$

11. A call-sign that is prefixed 'TYRO' means"

- A. The pilot in distress lacks experience.
- B. –the following transmission is a practice emergency.
- C. –the aircraft is experiencing difficulty but not in need immediate assistance.
- D. –the pilot of the aircraft in distress intends to ditch.

12. A 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

13. 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

14. 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

15. 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

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

A. CLEARANCE

b. GROUND

c. DELIVERY

d. PRESTO

17. The term 'CORRECTION' is used when:

A. Readback of a message is incorrect

B. a. 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.....

18. 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

19. 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

20. 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

21. 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

22. 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 boardbut does not require immediate assistance.

C.one of the crew has fallen ill

D.the crew require medical aid on the pan

23. An urgency message requires the following information:

A.Name of the station being addressed, aircraft callsign, nature of urgency condition, commander's intention, position, level, heading.

B.callsign, position, route, destination, endurance

C. Name of the station being addressed, aircraftcall sign, presentposition, level ETA destination.

D.captains, number, rank and name.

24. Readability2 means your transmission is:

- A. Readable but with difficulty
- B.readable
- C.readable now and then
- D.two way communication has been established

25. How does ATC report RVR?

- A.in kilometers along the final approach
- B.inmeters at touchdown, mid-point and stop- end-of a runway
- C.in nautical miles
- D.in feet and inches

26. 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

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

- A. APPROACH
- B. CENTER
- C. INFORMATION
- D. RADIO

28. 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

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

- a. Poor
- B.medium to poor
- C.medium.
- D.slipperly

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

- A.VFR/IFR
- B.TURBULENT/SMOOTH
- C.NOT BAD/SO SO
- D.VMC/IMC

31. 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

32. The abbreviation of a control zone is:

A.CTR

B.CTZ

C.ATZ

D.CTA

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

A. TOWER

B.CLEARNCE

C.GROUND

D.APRON

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

A.WORDS TWICE

B.SPEAK SLOWER

C.SAY AGAIN

D.REPEAT MESSAGE

35. The selection of code 7500 on the transponder means:

A.loss of communication

B.distress

C.urgency

D.hi-jacking

36. The QCODE true bearing a station is:

A.QDR

B.QFE

C.QUJ

D.QTE

37.The call from an aircraft for missed approach is:

A.OVERSHOOTING

B.TOUCH AND GO

C.GOING AROUND

D.ABORTING

38. The correct read back of the frequency123.725 on 25 KHz spacing is:

A.123.725

B.123.7

C.12372

D.123.72

39. What are the three main categories provided by the aeronautical communication service?

- A. –Tower, Approach and Radar.
- B. –LARS, information, and approach.
- C. –ATC, information, and approach.
- D. –ATC, AFIS and aerodrome air/ ground (A/G) communication service.

40. The two categories of emergency message are:

- A. –PAN and MAYDAY.
- B. –urgent and emergency.
- C. –emergency and distress.
- D. –urgency and distress.

41. An example of a conditional clearance passed to an aircraft is:

- A. –Gold wing 759 after the landing aircraft line-up runway 23.
- B. –GGP take-off at your discretion.
- C. –GGA you are number 3 in traffic, report final.

D–GGA exit left after passing the intersection on your right.

42. The element of a position report transmitted in the correct order are:

- A. – Call-sign, position, heading, level, time, ETA next position.
- B. – Call-sign, position, time, level, the next position and ETA.
- C. – Call-sign, position, heading, level, conditions, ETA next position.
- D. – Call-sign, position, time, heading, conditions, Eta next position.

43. The correct transmission and pronunciation of the RTF frequency 125.875MHz would be:

- A. – 125.875 spoken as 'WUN HUNDRED AND TWENTY FIVE DAYSEEMAL AIT SEVEN FIFE'.
- B. - 125.875 spoken as 'WUN TOO FIFE DAYSEEMAL AIT SEVEN FIFE'.
- C. – 125.87 spoken as 'WUN HUNDREDAND TWENTY FIFE DAYSEEMAL AIT SEVEN'.
- D. – 125.87 spoken as 'WUN TOO FIFE DAYSEEMAL AIT SEVEN'.

44. VACATE LEFT' means"

- A. –immediately clear runway.
- B. –the next runway exit on the left.
- C. –turn left to vacate the runway.
- D. –execute a missed approach.

45. The meaning of the ATC instruction 'GO AROUND' is:

- A. –make a 360° standard turn to allow traffic ahead to clear the runway.
- B. –go around the aircraft ahead on the maneuvering area wing tip clearance is adequate.
- C. –do not descend below 50ft agl.
- D. 0execute a missed approach.

46. An aircraft commander wishing to file flight plan should do so via:

- A. –the LARS giving a service at that time.
- B. –the published FIR frequency for the area in which the aircraft is locate.
- C. –the nearest ATCU.
- D. –any air/ ground station providing a two-way radio communication service.

47. Which of the following multi-choice answers is the correct RTF terminology for YES?

- A. –‘WILCO’.
- B. –‘ROGER’.
- C. –‘AFFIRM’.
- D. –‘WILLDO’.

48. Which of the following represents the correct of priority of messages handled by the aeronautical mobile service.

- A. –metrological, flight regularly, distress, direction finding, urgency, flight safety.
- B. –flight regularly, distress, direction finding, urgency, flight safety, metrological.
- C. –distress, urgency, direction finding, flight safety, metrological, flight regularly.
- D. –distress, direction finding, urgency, flight safety, flight regularly, meteorological.

49. In the correct of search and rescue, ‘distress phrase’ means:

- A. –a flight requires the assistance of the emergency services.
- B. –a ‘pan pan’ call has been transmitted.
- C. -there is apprehension concerning the safety of an aeroplane and its occupants and possible immediate assistance is required.
- D. –an aircraft and its occupants are threatened by grave and imminent danger and of requiring immediate assistance.

50. Following mayday prefix of a distress message the next transmitted element is;

- A. The call sign of the station being addressed if known and circumstances permitting
- B. The aircraft call sign
- C. The nature of emergency
- D. Number of persons on board.

PART B

QS 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 **5th line** of the message i.e. **AD 2205/2217 EA 0230 FCO**

(15 marks)