Myfuture CBC Revision

aviation - Grade 10

Question Paper

1. What is the primary role of the Airport Rescue and Fire Fighting (ARFF) service?

A. To provide rapid response to aircraft incidents, fires and rescue operations
B. To operate the airport cafeteria in emergencies
C. To help load and unload baggage in heavy rain
D. To patrol the terminal for lost children

2. Why is fatigue management important for aviation workers such as pilots and ground staff?

A. Fatigue increases the risk of human error and accidents
B. Fatigue improves alertness and decision-making
C. Fatigue only affects passengers, not staff
D. Fatigue reduces fuel consumption on aircraft

3. Which of the following is a typical ground handling service provided at an airport?

A. Selling travel insurance to passengers
B. Designing new aircraft
C. Baggage handling and ramp services
D. Setting immigration rules

4. In elementary technical drawing, how are linear measurements along the three isometric axes normally taken?

A. They must always be reduced by half
B. Using the same scale as the object (measure directly along the axis)
C. They cannot be measured and must be guessed
D. They must be increased by 25% to correct foreshortening

5. What are 'prepregs' used in composite construction?

A. Sandpaper sheets used for finishing
B. Fibres pre-impregnated with resin that require controlled curing
C. Metal plates used for reinforcement
D. Paint primers for metal surfaces

6. What are control cables in an aircraft used for?

A. Transmitting pilot control inputs from the cockpit to control surfaces
B. Measuring outside air temperature
C. Carrying fuel from tanks to engines
D. Operating passenger doors automatically

7. Why do busy airports use slot allocation systems?

A. To decide which shops can open in the terminal
B. To determine passenger immigration processing times
C. To manage limited runway and terminal capacity by scheduling takeoffs and landings
D. To set prices for airport advertising

8. Why must mobile phones be avoided during refuelling operations?

A. Because they could create sparks that ignite fuel vapour
B. Because they drain the aircraft battery
C. Because they interfere with the pilot's concentration in the terminal
D. Because they slow down the pumps

9. What are spoilers used for on an airplane?

A. To reduce lift and increase descent rate or assist roll control
B. To warm the cabin during cold weather
C. To inflate life rafts after ditching
D. To pump fuel to the engines

10. What is the role of stringers in aircraft structure?

A. To provide electrical power

B. To measure fuel quantity

C. To run longitudinally and support the skin between frames

D. To operate the landing gear hydraulics

11. What does the term 'preflight check' mean?

A. A security scan of passenger baggage

B. A routine inspection and system check conducted before a flight

C. A ticket inspection by airline staff

D. A weather forecast made after landing

12. Why should mobile phones and cameras be controlled in certain aviation work areas?

A. They can distract workers and compromise security or safety

B. They might get lost

C. To stop people from taking selfies for fun

D. Because workers should not communicate at all

13. What should ramp workers do if lightning is observed near the airport?

A. Collect aircraft chocks faster to finish early

B. Stop outdoor duties and seek shelter until it is safe

C. Try to film the lightning for social media

D. Continue working but wear a high-visibility vest

14. What is the main purpose of runway markings such as the large white centerline and threshold bars at Kenyan airports?

A. To provide visual cues for pilots about runway alignment and touchdown zone

B. To decorate the runway for visitors

C. To measure the width of the runway

D. To indicate the airport's administrative borders

15. What is a bucking bar used for when fitting solid rivets?

A. To polish paintwork

B. To measure rivet length

C. To cut sheet metal

D. To support and form the rivet tail while the rivet head is driven

16. Which international organization sets standards and recommended practices for global civil aviation?

A. International Civil Aviation Organization (ICAO)

B. United Nations Educational, Scientific and Cultural Organization (UNESCO)

C. International Maritime Organization (IMO)

D. World Health Organization (WHO)

17. What is a major difference between oblique and isometric pictorials used in aircraft drawing?

A. Oblique uses three axes of 120°; isometric uses a single flat view

B. Oblique always shows hidden lines dashed while isometric does not

C. Oblique shows the front face true shape; isometric shows three faces equally

D. Oblique is only used for electrical diagrams while isometric is for structures

18. Which factor most directly affects how much revenue an airport’s retail area will earn?

A. Number of passengers passing through and how long they stay

B. The number of runways an airport has

C. The height of the control tower

D. The age of the aircraft using the airport

19. What does 'annealing' do to a metal part used in aircraft construction?

A. Heat-treats it to soften the metal and relieve internal stresses

B. Makes the metal magnetic

C. Instantly paints the metal

D. Removes all corrosion without chemicals

20. How many faces of an object are normally visible in a standard isometric drawing?

A. Two faces

B. Four faces

C. Three faces

D. One face

21. Which component controls yaw (left and right movement of the nose)?

A. Rudder

B. Aileron

C. Elevator

D. Flap

22. What is the main purpose of duty-free shops at international airports?

A. To sell goods to international travellers without local taxes or duties

B. To store passenger luggage for free

C. To provide free samples to all passengers

D. To sell only Kenyan souvenirs at government prices

23. Which of the following is an example of an engineering control to reduce hazards in an aviation workplace?

A. Giving workers candy

B. Telling staff to ignore hazards

C. Installing noise barriers and exhaust extraction systems

D. Only using signs without changing equipment

24. What is a runway primarily used for at an airport?

A. Storing passenger buses

B. Holding outdoor concerts

C. Parking for long-term vehicle storage

D. Aircraft takeoff and landing

25. What is a 'near miss' in aviation safety reporting?

A. An incident that causes a major accident

B. A situation where harm almost occurred but was avoided

C. A minor paperwork mistake with no safety relevance

D. A successful emergency drill

26. Why is customer satisfaction important for airport business services?

A. Happy passengers spend more at shops and return to use the airport again

B. It allows airports to avoid paying taxes

C. It replaces the need for airline staff

D. It reduces the need for runways

27. Which of these is an example of an aeronautical charge an airport can collect?

A. Revenue from duty-free shop sales

B. Landing fee charged to an aircraft on arrival

C. Money earned from airport rental cars

D. Income from airport advertising banners

28. Which aircraft component primarily produces lift to keep the airplane in the air?

A. Rudder

B. Wing

C. Landing gear

D. Engine

29. What does a red flashing light at the runway threshold usually mean to pilots and vehicles?

A. Terminal doors are locked

B. Baggage carts should proceed with caution

C. The runway is closed or there is an immediate danger

D. It is safe to enter the runway at any time

30. Which principle is commonly used to explain part of how lift is generated on an aircraft wing?

A. Ohm's law of electrical circuits

B. Hooke's law of elasticity

C. Archimedes' principle of buoyancy

D. Bernoulli's principle (pressure differences above and below the wing)

31. Which component is the fixed vertical surface that helps keep the aircraft flying straight?

A. Flap

B. Vertical stabilizer

C. Horizontal stabilizer

D. Aileron

32. What should you do first if you discover a fuel spill near an aircraft at a Kenyan airport?

A. Ignore it and continue working

B. Light a small fire to burn it off quickly

C. Raise the alarm, cordon off the area and notify the fuel response team

D. Start cleaning it immediately with dry cloths

33. What is the main role of Air Traffic Control (ATC)?

A. To perform maintenance on aircraft

B. To provide safe separation and guidance to aircraft in the air and on the ground

C. To load baggage onto planes

D. To sell airline tickets to passengers

34. Which Kenyan airline is the national flag carrier of Kenya?

A. Kenya Airways

B. Jambojet

C. Precision Air

D. Safarilink

35. Which aircraft component primarily provides the structural support for the fuselage and carries wing loads?

A. Rudder

B. Main spar

C. Trim tab

D. Pitot tube

36. Why is it important to follow Standard Operating Procedures (SOPs) at work?

A. To increase paperwork without benefit

B. Because they are written only for managers

C. To make work slower and less efficient

D. To ensure tasks are done consistently and safely

37. What is the correct action for a passenger when the 'fasten seatbelt' sign is illuminated?

A. Use electronic devices without restraint

B. Move around the cabin to stretch

C. Remain seated with seatbelt fastened

D. Open cabin overhead bins

38. What is the paved area where aircraft are parked for boarding called?

A. Runway

B. Taxiway

C. Control tower

D. Apron

39. Which material is widely used in modern aircraft for strong, lightweight composite structures?

A. Glass bottles

B. Natural rubber

C. Carbon-fibre reinforced polymer

D. Solid cast iron

40. Why must airports include environmental management in their business plans?

A. To reduce pollution, control noise, and comply with environmental regulations
B. To stop passengers from using terminal facilities

C. To increase the number of flights regardless of emissions

D. To make runways shorter

41. What should a ground handler do before operating a vehicle on the airside?

A. Ensure vehicle is serviceable, display the required permit, wear high-visibility clothing
B. Drive without checks to save time

C. Park on the runway to get a better view

D. Only check the radio and ignore lights and brakes

42. What is the primary purpose of a cargo terminal at an airport?

A. To receive, store, process and forward airfreight and cargo

B. To sell duty-free items to local shoppers

C. To serve as a passenger arrival gate

D. To provide dining services for passengers

43. How can offering free Wi-Fi in the terminal help airport business services?

A. It replaces the need for concessionaires

B. It increases the number of runways available

C. It reduces the need for security screening

D. It improves passenger experience and can increase time spent in shops and use of paid

44. What is a jig or fixture used for in aircraft manufacturing?

A. To inflate tyres

B. To measure fuel pressure

C. To clean the runway

D. To hold and guide parts in a precise position during assembly or machining

45. Which is a key action for controllers to avoid collisions on the ground at busy airports like Jomo Kenyatta International Airport?

A. Turning off ground lights to save electricity

B. Allowing pilots to taxi without communicating

C. Maintaining clear radio readbacks and using ground surveillance procedures
D. Giving multiple aircraft identical taxi instructions

46. Which sign indicates a fire extinguisher location in airport buildings in Kenya?

A. A blue circle with a white 'i'

B. A red rectangle with a white extinguisher symbol

C. A green running man sign

D. A yellow triangle with an exclamation mark

47. What is the purpose of a sterile cockpit rule during critical phases of flight?

A. To allow passengers to visit the cockpit

B. To have music playing in the cockpit

C. To permit maintenance activities during flight

D. To prohibit non-essential conversations and distractions during taxi, takeoff and landing

48. What is the passenger service charge that passengers often pay at airports?

A. A fee charged to passengers to fund airport passenger facilities and services
B. A parking fee for drivers dropping passengers

C. A fee paid to the airline for extra baggage

D. A charge for buying food in the terminal

49. Which part is essential for protecting and supporting passengers during a crash landing by strengthening the cockpit area?

A. Wing tip light

B. Pitot tube

C. Bulkheads and reinforced structure

D. Fuel drain valve

50. Which organisation is primarily responsible for managing most airports in Kenya?

A. Kenya Airways

B. Nairobi County Government

C. Kenya Revenue Authority (KRA)

D. Kenya Airports Authority (KAA)