



Myfuture CBC Revision

aviation - Grade 10

Question Paper

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

- A. To sell duty-free items to local shoppers
- B. To receive, store, process and forward airfreight and cargo
- C. To serve as a passenger arrival gate
- D. To provide dining services for passengers

2. What is an airport master plan used for?

- A. To list every passenger who used the airport that year
- B. To schedule daily cafeteria menus
- C. To guide long-term development of runways, terminals and commercial areas
- D. To decide the brand names allowed in shops

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

- A. To allow passengers to visit the cockpit
- B. To permit maintenance activities during flight
- C. To have music playing in the cockpit
- D. To prohibit non-essential conversations and distractions during taxi, takeoff and landing

4. Which component ensures the pilot can see outside airspeed derived from dynamic pressure?

- A. Vertical speed indicator
- B. Attitude indicator
- C. Airspeed indicator connected to the pitot-static system
- D. Turn coordinator

5. Why do airports offer lounges for passengers?

- A. To house air traffic controllers
- B. To replace immigration and customs functions
- C. To provide premium waiting areas and generate additional revenue
- D. To store cargo awaiting clearance

6. What does a runway holding position sign (red background with white characters) at the taxiway entry mean for a pilot?

- A. Stop and hold short of the runway until cleared by Air Traffic Control
- B. Run without lights to avoid detection
- C. Proceed to park at the nearest gate
- D. Taxi across immediately because the runway is clear

7. Why is cutting or drilling aluminium usually done with lubricant or cutting fluid?

- A. To make the hole conduct electricity better
- B. To reduce heat, prevent galling and extend drill bit life
- C. To change the colour of the metal
- D. To prevent the metal from bending permanently

8. Which four forces act on an aircraft during steady, level flight?

- A. Push, pull, gravity, friction
- B. Magnetism, lift, weight, thrust
- C. Buoyancy, lift, thrust, torque
- D. Lift, weight, thrust, drag

9. Which structural member runs around the circumference of the fuselage to maintain shape and support skin panels?

- A. Aileron
- B. Magneto
- C. Propeller hub
- D. Frame or former

10. Which navigation aid provides pilots with directional information using radio signals from a ground station?

- A. Radar altimeter
- B. Fuel flow meter
- C. Thermometer
- D. VOR (VHF Omnidirectional Range)

11. What does the grit number on sandpaper indicate when preparing aircraft surfaces?

- A. The coarseness: higher numbers mean finer abrasive for smoother finishes
- B. The colour of the sandpaper
- C. The date the sandpaper was made
- D. The weight of the paper per sheet

12. Why might the Kenya Airports Authority enter into a public-private partnership (PPP) to upgrade a terminal?

- A. To hand over all airport safety responsibilities to private companies
- B. To avoid paying any airport staff salaries
- C. To bring private investment and expertise while sharing risk
- D. To stop all flights during construction permanently

13. Which two main surfaces make up the empennage at the tail of the aircraft?

- A. Rib and spar
- B. Wing and aileron
- C. Horizontal stabilizer and vertical stabilizer
- D. Propeller and nacelle

14. What is the primary function of an aircraft's control surfaces (ailerons, elevator, rudder)?

- A. To increase fuel capacity
- B. To provide extra storage space for cargo
- C. To cool the engines during flight
- D. To change the aircraft's orientation (roll, pitch, yaw)

15. What is the main role of the Kenya Civil Aviation Authority (KCAA) in airport operations?

- A. Operate airline flight schedules
- B. Regulate aviation safety, licensing and oversight
- C. Collect parking fees at the terminal
- D. Run airport retail shops

16. Which of the following is a common cause of runway excursions (aircraft running off the runway)?

- A. Wet or contaminated runway, high speed on landing, or pilot error
- B. Playing music in the cockpit
- C. Having full cabin service during landing
- D. Using the correct glide path during approach

17. Which wood was historically preferred for aircraft structures because of its good strength-to-weight ratio?

- A. Spruce
- B. Mahogany
- C. Oak
- D. Balsa used for flooring

18. What is the main difference between fixed-wing aircraft and helicopters?

- A. Fixed-wing aircraft use wings for lift and usually need a runway; helicopters use rotors
- B. Fixed-wing aircraft can hover in one place; helicopters cannot
- C. Helicopters always fly faster than fixed-wing planes
- D. Fixed-wing aircraft are only used for military purposes

19. Why must safety signage and markings on the apron and taxiways be kept visible and maintained?

- A. To provide critical guidance to pilots and ground staff and prevent misunderstandings
- B. They are decorative only
- C. Because only regulators care about them
- D. So they match the company logo

20. What are stringers used for in aircraft construction?

- A. As longitudinal stiffeners along the fuselage or wing skin
- B. As the main vertical stabilizer
- C. As fuel lines
- D. As landing gear shock absorbers

21. 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 replaces the need for airline staff
- C. It allows airports to avoid paying taxes
- D. It reduces the need for runways

22. Which adhesive is commonly used to bond composite parts in aircraft construction?

- A. Ordinary school glue
- B. Cooking oil
- C. Epoxy resin adhesive
- D. Shoe polish

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

- A. Only check the radio and ignore lights and brakes
- B. Drive without checks to save time
- C. Park on the runway to get a better view
- D. Ensure vehicle is serviceable, display the required permit, wear high-visibility clothing

24. Which personal protective equipment (PPE) is essential when grinding metal on aircraft parts?

- A. Flip-flops and shorts
- B. Sunglasses only
- C. Safety goggles, ear protection, and gloves
- D. No protection needed for small jobs

25. What should a pilot do if visibility is below the minimum required for the intended approach?

- A. Abort the approach and divert or hold until conditions improve
- B. Turn off instruments and fly visually
- C. Ask passengers for guidance
- D. Continue the approach regardless

26. What part of the aircraft supports it while on the ground and during takeoff and landing?

- A. Landing gear
- B. Nacelle
- C. Spar
- D. Cockpit

27. How can passengers help improve airport safety while waiting at the gate?

- A. Report unattended items and follow staff instructions
- B. Stand on seats to get a better view of the aircraft
- C. Try to open cockpit doors to say hello
- D. Leave carry-on bags in emergency exits

28. Which tool is used to tighten bolts to a specified value so they are not too loose or too tight?

- A. Torque wrench
- B. File
- C. Hammer
- D. Pliers

29. What is an airport master plan from a business-services perspective?

- A. A weekly schedule for aircraft arrivals
- B. A duty-free product list for shops
- C. A license for food vendors only
- D. A long-term plan that outlines development of airport facilities, including commercial areas

30. Which element is a key part of a Safety Management System (SMS) in aviation?

- A. Removing safety officers from duty
- B. Proactive hazard identification and risk management
- C. Only hiring staff with no safety training
- D. Ignoring hazard reports to save time

31. Which instrument is best for measuring the thickness of thin sheet metal to the nearest 0.01 mm in a school workshop?

- A. Micrometer
- B. Ruler
- C. Protractor
- D. Kitchen measuring tape

32. What is the purpose of flaps on an airplane wing during landing?

- A. To increase lift and drag so landing can occur at lower speed
- B. To lock the landing gear
- C. To increase cruising speed at high altitude
- D. To improve in-flight entertainment

33. What is the immediate step if a vehicle driver on the apron sees an aircraft starting engines nearby?

- A. Honk to get the pilot's attention
- B. Drive quickly between aircraft to save time
- C. Maintain clear distance, stop and follow marshaller or ATC directions
- D. Speed up and pass the aircraft on the left

34. What is aviation?

- A. The science of building ships and boats
- B. The study and practice of designing, producing and operating aircraft
- C. The study of road transport and vehicles
- D. Running trains and rail networks

35. What is the main purpose of the stall warning device found on many light aircraft?

- A. To provide weather updates
- B. To alert the pilot when approaching aerodynamic stall at low speed
- C. To start the engine remotely
- D. To engage the autopilot automatically

36. Which department investigates aircraft accidents and serious incidents in Kenya?

- A. Kenya Revenue Authority (KRA)
- B. Nairobi Parks Service
- C. Air Accident Investigation Department (AAID)
- D. Kenya Civil Police

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

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

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

- A. Jambojet
- B. Precision Air
- C. Safarilink
- D. Kenya Airways

39. What is a NOTAM?

- A. A passenger check-in form
- B. A type of aircraft maintenance tool
- C. A Notice to Airmen about temporary hazards or changes affecting flights
- D. A food permit for airport restaurants

40. What should cabin crew instruct passengers to do in the event of an evacuation on the tarmac?

- A. Leave luggage behind and follow crew instructions to exit quickly
- B. Wait for other passengers to help carry bags
- C. Stand up and take photos for insurance claims
- D. Grab all carry-on items and run to the nearest vehicle

41. What is the best immediate action if you see wildlife near a runway at a Kenyan airport?

- A. Alert airport operations or wildlife control and stay clear
- B. Drive a vehicle at high speed to frighten them
- C. Throw food to lure them away from aircraft
- D. Try to scare them away yourself using anything available

42. What is the main body of an aircraft that houses the pilot, passengers, and cargo?

- A. Fuselage
- B. Propeller
- C. Wing
- D. Empennage

43. What is the correct response if you find a damaged tool in the workshop?

- A. Report it, tag it out of service and replace or repair it
- B. Keep using it because it still works sometimes
- C. Hide it so others don't know
- D. Throw it on the runway

44. At a busy airport like JKIA, why is coordination between Air Traffic Control (ATC) and ground handling important?

- A. To organise passenger entertainment schedules
- B. To reduce the number of flights
- C. So ATC can serve coffee to ground handlers
- D. To ensure safe and efficient movement of aircraft on ground and in the airspace

45. What is the main difference between a pop (blind) rivet and a solid rivet?

- A. Solid rivets are only used on plastic
- B. Pop rivets can be installed from one side; solid rivets require access to both sides
- C. Pop rivets are made of wood while solid rivets are metal
- D. Pop rivets are always stronger than solid rivets

46. If you see a co-worker looking very tired before a shift on the ramp, what is the safest action?

- A. Report your concern to a supervisor before they start work
- B. Give them strong coffee and expect them to be fine
- C. Assign them the busiest task so they stay awake
- D. Ignore them because work must continue

47. What does a displaced threshold on a runway mean for landing aircraft?

- A. Aircraft must stop before reaching the displaced threshold
- B. Pilots must land beyond the displaced threshold; the area before it may be used for
- C. The entire runway is closed for all operations
- D. It indicates a preferred parking area

48. What should passengers do when the plane's 'fasten seatbelt' sign is illuminated?

- A. Remove life jackets to inspect them
- B. Begin collecting luggage from overhead lockers
- C. Fasten their seatbelt and remain seated
- D. Stand up and stretch to reduce stiffness

49. When working near propellers or jet intakes, what is a critical safety precaution?

- A. Keep a safe distance and follow engine running procedures
- B. Throw objects into the intake to check power
- C. Play loud music to warn others
- D. Stand close to the intake to warm up

50. Who are the key stakeholders in airport business services in Kenya?

- A. Only tourists from outside Africa
- B. Only the pilots and cabin crew
- C. Airport authority, airlines, ground handlers, concessionaires, regulators and passengers
- D. Only the vendors selling newspapers