

KNT/KW/16/7442

P.T.O

## Write notes on any three.

- i) Check rails.
- ii) Home signal.
- iii) Starter signal.
- iv) Marshaling Yards.
- v) Left hand Turn-out.
- **7.** a) Name the different characteristics of aircraft. How do they affect the planning and design of airport?
  - b) Define the terms :
    - i) Cross wind component.
      - ii) Wind coverage.

## OR

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- a) Explain the procedure of orienting the runway.
- b) Enumerate the various factors which are to be considered while selecting a suitable site for an airport.
- **9.** a) What do you understand by terminal area? What facilities are provided in this area?
  - b) What are the different parking systems for an aircraft? Discuss any one in detail.

## OR

- **10.** a) What are the characteristics of an ideal airport layout?
  - b) The length of runway under standard conditions is 1620m. The airport site has an elevation of 270m. Its reference temperature is 32.90°C. If the runway is to be constructed with an effective gradient of 0.20 percent, determine the corrected runway length.
- 11.

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- Write notes on **any three.** 
  - i) Tunnel lining.
  - ii) Drainage in Tunnels.
  - iii) Lighting in Tunnel.
  - iv) Economics of Tunneling.

## OR

- **12.** a) Write in detail Tunnel Surveying.
  - b) Why ventilation is needed during & after the tunnel construction? How it is provided? Explain.

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