

- 8 a. Briefly explain the aircraft characteristics which affect the design of airport. (08 Marks)
b. Explain in brief the classification of airports. (08 Marks)
c. What are the characteristics of air transport? (04 Marks)
- 9 a. Explain the procedure of orienting the runway using windrose diagram. (10 Marks)
b. An airport is proposed at an elevation of 400m above MSL, where the mean of maximum and mean of average daily temperature of the hottest month are 44.8°C and 26.2°C respectively. The maximum elevation difference along the proposed profile of runway is 6.3m. If the basic length of runway is 1260m. Determine the actual length of runway to be provided. (10 Marks)
- 10 a. What are the factors governing the layout and location of taxiways. Explain in brief. (08 Marks)
b. Design an exit taxiway joining a runway and a parallel main taxiway. The total angle of turn is 35° and the maximum turnoff speed is 80 kmph for the data given:
Radius of Entrance curve = 731m
Runway width = 4.5 m
Taxiway width = 22.5 m
Draw a neat sketch showing all the design elements. (08 Marks)
c. Explain in brief :
(i) Wind Coverage
(ii) Cross wind component (04 Marks)

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