

Nepal Airlines Corporation
Syllabus for Junior Flight Dispatcher Grade V
Aviation Service
Crew Technical Group, Flight Dispatchers Sub Group
Open competition

A. Stages and Procedure of Examination System

Phases	S. N.	Title of the Content	Nature of Questions	No. of Questions	Marks for each Question	Total Marks	Time
First 80% Full Mark 100 Pass Mark 20	1	Physics					3 hrs.
		Dynamics	Subjective (Short answer)	1	6	6	
		Heat	Subjective (Short answer)	1	6	6	
		Light	Subjective (Short answer)	1	6	6	
		Magnetism	Subjective (Short answer)	1	6	6	
		Electricity	Subjective (Short answer)	1	6	6	
	2	Mathematics	Objective	15	2	30	
	3	Geography	a. Objective	5	2	10	
			b. Subjective (Short answer)	1	5	5	
	4	English	a. Passage writing	1	15	15	
b. Grammar			10	1	10		
		Total	37		100		
Second 20%		Interview	Oral			20	

B. COURSE CONTENT

Physics: (30) Marks)

1. Dynamics: Measurements, velocity and acceleration; Resultant components of velocity; Laws of motion, gravity and gravitation work, power energy and friction; Atmospheric pressure, its measurement and its applications.
2. Heat : Concept of Heat and temperature; Types of thermometers and their applications; Specific heat capacity; kinetic theory of gases. Laws of thermodynamics; Heat engine – conversion of heat into work; Petrol engine, efficiency of heat engine.
3. Light: Propagation of light; Reflection; Refraction of light through the prism, glass slab and lenses; Binoculars; Telescope; velocity of light Visibility.
4. Magnetism: Terrestrial magnetism (Dip, Declination)

5. Electricity: Atmospheric electricity and condition of earth; causes of atmospheric electricity; Lighting conductors, sources of current electricity; SI units and measurements of potential difference, current and resistance; effects of current; Electromagnetic induction and practical applications.

Mathematics: (30 Marks)

Basic mathematics, Trigonometry, Dynamics based on I.Sc. level.

Geography : (15 Marks)

Basic Geographical knowledge (such as latitude, longitudes, wind direction, weather condition of alpine region) of the world with special reference to Nepal.

English (25)

English passage writing in any given subject for about 200 words and General Grammar.
