Name: _____ Group №: _____

Date: ____/ ____ / _____ Course: _____

Railway cars:

REQUIREMENTS TO MODERN PASSENGER CARS

1 **Read the text and translate it :**

The passenger is supposed to expect safety, speed and comfort from the railway. Therefore safety has always remained the first essential, though it has already reached a very high level compared to the other modes of transportation.

In the field of speed, considerable progress is considered to have been made by wide use of electric and diesel traction both on main and suburban lines. It is possible now to increase maximum speeds to 250 km/h. Medium speed of about 170 km/h is to become normal in Europe.

It is not so easy to define the concept of comfort. During the journey it is necessary to ensure safety, relaxation and facilitate such activities as reading, conversation or taking refreshments. Therefore, the seat is to be one of the fundamental comfort factors both from physiological and psychological points of view. In fact, it must enable passengers of different weight, height and stoutness to relax, doze, sleep and possibly write, eat or drink, all during the journey which may last several hours and even days.

First of all, the passenger is expected to pay attention to the external appearance of the rolling stock. The latter should look as attractive as possible. Then, the passenger should be able to board the train without difficulty which is possible at stations with high platforms. One must be able to find his seat quickly, to get rid of his luggage and to be able to enjoy the inside temperature in contrast with that on the platform which can sometimes be either very high or very low. Besides that good running qualities must also give a feeling of safety and a low noise is very important as well.

Some railways have developed designs of rocket-looking locomotives and cars of bright colours and their tourist cars are often double-deckers, often called «bi-level» cars.

2 Find all international words in the text and translate them:

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3 Translate the sentences into Russian:

1. There were many cars at the exhibition, the one from Japan attracted the greatest attention.

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2. To go to Moscow from St. Petersburg one can choose either the day or night-time train. Either train is very comfortable.

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3. The new Japanese train is reported to be operating successfully at speeds of more than 300 km/h.

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4. Students of the Mechanical Engineering Faculty are to know the main elements of any car.

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5. The new bi-level car w ill be much more attractive than the old one.

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6. The car which you could see at the exhibition w ill be used on international routes.

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7. Russian railways are known to run a transcontinental passenger service across two continents – Europe and Asia

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4 Give the definition (in English) of:

*a track circuit-*_____

*a track relay-*_____

*an insulating joint-*_____

*an electronic track relay-*_____

*track circuit resistor-*_____

5 Speak on the principles of track circuit operation.

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