

Answers to Last Weeks Questions

29. How do the Train Brakes Work?

The engine has an air compressor a tank and a control valve each car a smaller tank, a tripple valve, and a horizontal brake cylinder. The cylinder has two pistons, connected by a spiral spring. The train hose connects the engine tank with the tank under each car. A pressure of 70 to 80 pounds is maintained in the train pipe and each car tank, the brake cylinder empty and the brakes off.

To apply the brakes, the engineer opens the control valve, which reduces to pressure in the train pipe. Each car brake then works automatically and independently, thus: The pressure in the car tank, now being greater than in the train pipe, it moves the tripple valve and opens a passage by which the air in the car tank rushes into the brake cylinder, forces the pistons of the cylinder apart and applies the brakes.

To release the brakes, the engineer admits air from the engine tank into the train pipe. This forces the tripple valve back into place, closes the opening between car tank and brake cylinder and refills the car tank, at the same time opens an escape for the air in the brake cylinder and the pistons are drawn back to their original position by the spiral spring.

The Westinghouse brake has saved more lives than were destroyed in all of Napoleon's wars.

30. The Meaning of the Red Stripes on the Barber Pole?

In former times barbers also "carried on" as surgeons and performed the operation of bleeding, then a common remedy for most ills. The spiral red stripes symbolize the practice of winding a ribbon around the arm prior to letting the blood. The barber surgeons were incorporated in England in 1461; were united with the surgeons in the reign of Henry VIII. This connection was dissolved by an act reading in part: "The trade of a barber is foreign to an independent of the practice of surgery." Until recent times the surgeons of the Swedish navy acted as barbers for the crew.

31. Of What Was the Finger Ring Bessie a Symbol From the Remotest Time?

From the remotest time the finger ring (usually connected with a seal) was an emblem of authority, which could be delegated by the simple process of delivering it to an agent. The cases of Pharaoh and Ahasurus are instances of this. They have long been in almost universal use as a token of betrothal and marriage.

32. When can one Legally Drive on the Left Side of the Road?

Vehicles when passing should turn to the right, each on his side of the center of the highway, or the traveled part of the road. It does not follow that because a driver is on the right-hand side of the road he can disregard the rights of others coming in the opposite direction. If the road is covered with drifted snow, or a part of the highway flooded, travelers must turn to the right of the traveled part of the road as it then is. If an obstruction on the right-hand side of the highway, a wash-out, or a hole in a bridge or culvert, one can drive on the left

side until the obstruction is passed, if he uses proper care when doing so.

33. How much Silver and Copper is Legal Tender for a Debt?

Silver Dollars and Treasury Notes are legal tender to any amount, unless otherwise stipulated in the contract. One need not take, against his will, more than \$10, in halves, quarters and dimes; nor more than 25c in nickels and pennies.

34. Are National Bank Notes Legal Tender?

Yes to the Government and between banks, but not to an individual (Ordinarily it would be poor business to refuse them). If the amount one owes is in dispute, however, and he wishes to pay what he thinks is due, he should be very careful, for if he should offer money that is not legal tender and the other party should refuse it and afterwards sue, the court would be compelled to hold that no tender of payment had been made.

35. Give a Few Rules Concerning Chinese Names?

Each Chinese syllable has a distinctive meaning when grouped with other syllables: "King" as in Peking and Nanking, means capitol, Peking being the capital of the north and Nanking of the south "Pe", as in Peking and Hupeh, means north; "Nan", as in Nanking and Honan, means south; "Ho", as in Hwang-Ho and Honah, means river; "Kiang", as in Yangtze-Kiangsi, means; "Chan", as in Fuchan and Suchan, means place (section of land); "Fu", as in Sian-Fu and Yannan-fu, means west; "Tan" as in Tsingtan, means island; "Hai", as in Shanghai, means sea; "Shan", as in Shantung, means mountains; "Tung", as in Kuangtung, means east, and "Hu", as in Hupeh, means lake. "Shantung, for instance, is equivalent to "East Mountain" in English.



CHRIST FOR ALL—ALL FOR CHRIST

The Word of God

BIBLE THOUGHT AND PRAYER

If parents will have their children memorize a Bible selection each week, it will prove a priceless heritage to them in after years.

PERFECT PEACE:—Thou wilt keep him in perfect peace, whose mind is stayed on Thee; because he trusteth in Thee. Isaiah 26: 3.

PRAYER:—Lord, we believe. Help Thou our unbelief. How can we get an increase and

QUESTIONS AND BIBLE ANSWERS

If parents will have their children memorize the answers in the Bible Citations, it will prove a priceless heritage to them in after years.

blessing from God?
Answer, read, Psalm 67:5 6.

Walls of Dairy Barns

In cold climates the walls of a dairy barn, whether built of brick or concrete, should be provided with air spaces, says the United States department of agriculture. It is advisable to insulate the ceiling. Otherwise moisture will condense on the inside walls and ceiling during extremely cold weather.

REVIEW OF WORK OF OREGON LEGISLATURE

Senate Holds Governor's Financial Measures For Action.

Last Week of Session is Entered—House Adopts Raise in Legislators' Pay—Soldiers' Bonus Time Extended—Repeal of Motor Vehicle Law Extended—Senate Approves Wilson River Road.

Salem.—When the legislature convened Monday for the last week of the session attention was focused on the senate, where the governor's financial bills were held for action. Governor Patterson's financial measures passed the house last week with little opposition, but it was believed that considerable opposition would develop in the senate.

In addition to passing the titling bill, so-called, which takes 5 per cent of the gross earnings of all state boards and commissions for the general fund, the house passed the governor's income tax bill. The income bill passed the house after brisk debate, with 49 voting for, nine against and two absent.

Shortly after word of the passage of the income bill by the house reached him Governor Patterson issued a statement, regarded as a warning to the senate, in which he said that "It would in my opinion prove unfortunate if the bill should be mutilated by indiscriminate amendment before its final passage."

While this should be the last week of the session, it is generally believed that it will be impossible to clear up the calendars within the prescribed 40 day limit and the session may extend into the following week.

House Passes Textbook Bill

The house passed the so-called free text-book bill after considerable argument, the vote being 35 to 21, with four members absent.

The bill provides for the vote of citizens who may levy a special tax by school districts, and those who elect may purchase texts for school pupils, the cost to be borne by the special levy, not to exceed \$1.50 for each pupil of elementary schools, each year.

Districts of the first class, which means Portland alone, may choose the texts for school children to use in their studies. Other districts of the state will follow recommendations of the state text book commission as to the books chosen. One district or more may take advantage of the new law and other districts may still elect to have books bought by individuals as at present. There is no compulsion in the measure for any district to use the new method if it does not desire it.

With only two dissenting votes, Senator Eddy's educational bill, providing for a state board of education of seven laymen, passed the senate.

The measure would give the board of laymen authority to prepare the course of study. It differs from bills introduced in 1923 and 1925 by Senator Eddy in that the former measures prescribed the course of study.

Rustling Bill Defeated

Encountering strong objection from western Oregon representatives, a house bill, desired by eastern Oregon interests to combat cattle rustling, was defeated in the house. The measure would have provided that a vendor of livestock or hides would have to furnish a vendee with a bill of sale, for each animal or hide.

Construction of 100 miles of the central Oregon highway, between Burns and Ontario, asked for in senate concurrent resolution 5, was approved by the house.

A senate joint resolution providing for a constitutional amendment to raise the pay of legislators from \$3 to \$10 a day, was adopted by the house. The matter will be referred to the people at the next election.

The house also adopted a senate joint resolution calling for the adoption of "Oregon, My Oregon," as the official state song.

By indefinite postponement the senate killed the bill providing for old age pensions under a state commission administration.

The senate postponed indefinitely a bill authorizing an appropriation of \$50,000 for a woman's building at the old soldiers home. This bill was sponsored by the Women's Relief corps.

Motor Regulations Opposed

Strenuous opposition to additional regulations affecting motor vehicle owners was voiced in the senate when a bill providing for inspection of tourist camp grounds was defeated.

Sixteen senators voted against a bill to provide for distribution of automobile license plates by the sheriffs of the various counties instead of through a centralized office as now handled.

The legislature of Washington has refused to appoint a committee to confer with a committee from the Oregon legislature with relation to fishing

legislation on the Columbia river, according to a letter received by the chief clerk of the senate.

A bill extending the time for obtaining the state soldiers' bonus or loan, was passed without opposition by the house. It provides that one may apply for cash benefits up to June 30, 1930, and for the loan to June 30, 1945.

Representative Pierce's bill permitting dancing after midnight and until 3 A. M. in counties of the state of lesser population, failed to pass.

Repeal of the motor vehicle certificate of title law which was sought in a bill introduced by Senator Upton, was defeated in the senate after a lengthy and somewhat heated debate. Twelve senators voted for the repeal of the certificate of title law, while 12 senators voted against the repeal.

Voters to Pass on Salaries

Voters at the next general election will pass on a proposed constitutional amendment prohibiting salary increases for both state and county officers during the terms for which they were elected, under a resolution introduced by Senator Brown and approved by 22 of the 30 senators.

By 31 votes, the house passed Representative Graham's bill, which does away with the personal liability of automobile owners or drivers for injuries to their guests. The bill carries an emergency clause. It was opposed by most of the lawyers of the house, who urged it was throwing down the bars for negligence and that it would be declared unconstitutional.

A bill introduced in the house by Cramer, to prohibit livestock from running at large in precincts through which a state highway runs came in for a severe roasting in the senate, and failed to pass.

The senate reconsidered and approved a bill repealing the present law making it incumbent on men desiring to obtain a marriage license to first submit to a medical examination.

The senate indefinitely postponed a resolution providing for a constitutional amendment creating the office of lieutenant governor.

Governor May Be Budget Officer

The senate approved a measure sponsored by Governor Patterson providing that he shall be the state budget officer. Twenty-one senators voted for the bill and nine opposed. It previously was passed by the house.

The budget bill gives the governor power to appoint a budget master, and appropriates \$25,000 for the administration of the budget department.

It was one of the principles set out in the Patterson platform when he sought nomination and election to office, and the senate vote grants to him the power which he told the voters he would seek of the legislators and would use, if given to him, to reduce state expenditures.

The senate, by a vote of 19 to 9, with two members absent, approved a house bill introduced by the Tillamook and Washington county delegations authorizing construction by the state highway department of what will be known as the Wilson river toll road.

Senate Opposes Phone Investigation

Twenty-four members of the senate recorded their votes as opposed to adoption of a memorial introduced by Senator Dunne requesting a federal investigation of the telephone rates now effective in the state. The memorial was indefinitely postponed.

Senator Upton has introduced a bill abolishing the state fish commission and placing the duties of the department under the state board of control.

Creating of the office of superintendent of the Oregon state penitentiary was provided in a bill introduced by Senator Moser. The superintendent would have authority to appoint a warden and deputy warden.

This bill is part of the administration program to place the various prison industries on a profitable basis. Members of the board of control said the superintendent would act as executive officer of the institution and would be held responsible for the management of the penitentiary industries. He also would have general supervision over the entire prison plant.

Salesmen Exempt as Peddlers

The senate passed a road and highway committee bill eliminating commercial salesmen from the operation of the so-called peddlers motor vehicle license tax. Under this law commercial travelers were compelled to pay a motor vehicle license fee 50 per cent in excess of the license fee assessed against other vehicles.

The new bill in addition to repealing the peddlers' license tax, fixes the last half of the year for securing motor vehicle licenses as of June 1. Under the present law the last half of the year begins July 1. The last half license fee under the new act would be based on 60 per cent of the total license fee.

Senator Bailey has introduced a joint resolution referring to the voters of the state a constitutional amendment making the provisions of the workmen's compensation act compulsory as affecting all hazardous occupations. Under provisions of the proposed amendment, all employers and employes engaged in hazardous occupations would be brought under the act without any opportunity for election or rejection.

Canners School To Hear About Micro-organisms

A course in micro-organisms of canned products will be conducted by J. E. Simons, assistant professor of bacteriology, at the canner's school, February 7 to 25, at the college.

This course lasting three weeks will cover the underlying principles of bacteriology to enable those not already familiar with such work to understand it. After the students become acquainted with the principles, a practical application of bacteriology to commercial canning will be made.

Micro-organisms that cause infectious diseases and poison foods will be studied, and also those

that cause ordinary spoilage of foods but are not poisonous. De-shub's microbes used in the manufacture of different canning products also will be discussed.

Registration for the short course which is arranged annually by the horticultural products section will be Monday, February 7.

Wooden & Hall will erect \$30,000 store and office building at Clatskanie.

New \$51,400 schoolhouse completed and dedicated for use at Garibaldi.

Rainier drainage district replaces old gasoline drain pump with electricity.

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