

# LOCOMOTIVE MANAGEMENT

## EXAMINATION QUESTIONS

(1) What precautions should be taken when a bearing is discovered warming up? ART. 45.

(2) If, after the ordinary precautions have been taken, the bearing continues to heat, would you deem it advisable to use water on it? ART. 46.

(3) How should a locomotive be inspected? ART. 2.

(4) Give five examples of how to book defects discovered during inspection. ART. 3.

(5) In case a disconnected engine is being towed, how fast can it be run with safety? ART. 49.

(6) (a) What are the common causes of the main crank-pin heating? (b) If it becomes so hot that oil will not stay in the cup, what should be done? (a) and (b) ART. 48.

(7) What would you do in case the rod brasses get so hot as to melt the babbit? ART. 48.

(8) What is the cause and effect of friction? ARTS. 5 and 7.

(9) How does oil, grease, and graphite make a bearing run cool? ART. 10.

(10) What kind of oil gives the best results in lubricating metallic packing, and what is the best method of applying it? ARTS. 21 and 22.

(11) What should you do in case of a hot eccentric? ART. 48.

(12) Should water ever be used to cool a hot eccentric? Give reasons. ART. 48.

(13) What will cause metallic packing to blow? ART. 22.

(14) What is meant: (a) by the flashing point of an oil? (b) by the burning point of an oil? (c) At what temperatures will engine oil and cylinder oil flash? (a) and (b) ART. 13; (c) ART. 12.

(15) How can you best determine whether a leak is in the throttle or in the dry pipe? ART. 50.

(16) What kind of waste is best for packing boxes, and how should it be prepared for use? ART. 15.

(17) Why should waste never be allowed to hang on the outside when packing boxes? ART. 16.

(18) If a collision is liable to occur on a railway crossing and cannot be avoided, what should the engineer of the train occupying the crossing do in order to reduce the effects of the collision as much as possible? ART. 63.

(19) What are the most common causes of pounds in an engine, and how can they be located? ART. 51.

(20) In the event of metallic packing failing on the road, how would you proceed to remedy the trouble? ART. 23.

(21) What are the most common causes of an engine blowing, and how can the blows be located? ARTS. 53, 54, 55, and 56.

(22) What are the best methods of putting: (a) a canton-flannel wick in a headlight? (b) a felt wick in a headlight? (a) and (b) ART. 25.

(23) How should a headlight reflector be cleaned? ART. 26.

(24) What are the duties of an engineer before attaching his engine to the train? ART. 29.

(25) What will cause an engine to go lame? ARTS. 58 and 59.

(26) What is the most economical way of handling an engine, the speed and weight of the train being considered? ARTS. 33 to 36.

(27) What course should be pursued when an engine is off the track? ART. 62.

(28) How should sand be used under different conditions of service? ARTS. 41 and 42.

(29) On what points is the weight carried on: (a) an eight-wheeled engine? (b) a mogul engine? (a) and (b) ART. 65.

(30) What precaution should be observed when running an engine during cold weather? ART. 43.

(31) What is the usual cause of a steam chest breaking, and how can its breaking be prevented? ART. 57.