Manual Drivetrains and Axles, 8th Edition
Chapter 4

Name_____

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

1) What happens when the driver depresses the clutch pedal?

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2) Why is a dual-mass flywheel used on some vehicles?

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3) What is meant by clutch pedal freeplay?

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4) What are the parts of a typical clutch assembly?

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1) When force is exerted on the center of the pressure plate by the release bearing, the applied force is released from the clutch disc that had been squeezed between the engine flywheel and the pressure plate. With the pressure removed from the clutch disc, the engine can be operated without transferring torque to the transmission/transaxle.
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2) A dual mass flywheel is used on many luxury vehicles and vehicles equipped with diesel engines to dampen engine firing impulses that can cause a vibration in the shift lever.
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3) Clutch pedal freeplay is the amount of clutch pedal movement that does not result in any movement of the release bearing. This freeplay is often specified to be sure that the clutch is fully released.
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4) A clutch assembly consists of a clutch disc that is splined to the input shaft of the transmission/ transaxle. When the driver depresses the clutch pedal, a release bearing, also called a throwout bearing, is forced against the release levers (fingers) of the pressure plate. The pressure plate is bolted to and rotates with the flywheel.
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