True / False Questions

1. The True	use of castings in fabrication is cheaper, stronger and more uniform than rolled steel. False
2. Wel True	ding is extensively used in the space industry. False
3. Rob True	otic welding is not limited to the aerospace industry. False
4. Amo	erica continues its vast road building and repair program over the entire country. False
5. Who	en fully loaded, a giant off-highway truck can hold 290 cubic yards of earth. False
6. Stee True	l has better qualities in the making of machine tools than cast iron. False
	use of welding on overland pipelines is limited by their extreme length. False
8. Wel weight True	

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9. The manual plasma arc welding process is extensively used in the fabrication of railroad equipment.True False
10. Many hopper cars are now made of aluminum. True False
11. Welded passenger coaches are stronger, safer and more comfortable than riveted coaches True False
12. One advantage of welded submarines is their caulked seams. True False
13. The welded seams of ships' hulls are not difficult to repair. True False
14. Rivet causes high stress concentrations when the plate is loaded. True False
15. In building construction, welding is limited to the structural steel frame work and to piping.True False
16. Two serious service failures of riveted tanks were leakage and corrosion around rivets. True False

17. Welding is used extensively in the fabrication of tanks and pressure vessels because it develops strength equal to 90% of the tank plate. True False Fill in the Blank Questions 18. The industrial functions of welding are fabrication, maintenance, and 19. The advantages of welded ______ equipment are economy, size limitation, strength, rigidity and lightweight. 20. The welded joint can be substituted for heavy ______ sections in the fabrication of construction equipment. 21. The welded joint is as ______ as the sections it joins. 22. The production of _____ energy would not be possible without the use of the welding process. 23. Welded pipe is well suited for use in nuclear plants because it can withstand the and high pressure required to operate such installations.

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24. Welded piping syste connections have greate		·	nanently tight
25and shapes.	fittings make it pos	ssible to fabricate any co	ombination of sizes
26. A relatively new dev	-	construction is the supe	er-size, all-welded,
27. Prefabrication, preas	•		struction of
28. For overby the welding process.	years, bri	dges have been construc	cted wholly or in part
29. Steel home construct and energy cost.	tion saves owners thous	ands in	, insurance

Multiple Choice Questions

- 30. Which one of the following welding processes did not play an important part in household equipment?
- A. GTAW
- B. GMAW
- C. SAW
- D. Brazing

True / False Questions

1. The use of castings in fabrication is cheaper, stronger and more uniform than rolled steel. FALSE
2. Welding is extensively used in the space industry. TRUE
3. Robotic welding is not limited to the aerospace industry. <a 10.2016="" doi.org="" href="https://doi.org/10.1007/j.ncm.ncm.ncm.ncm.ncm.ncm.ncm.ncm.ncm.ncm</td></tr><tr><td>4. America continues its vast road building and repair program over the entire country. <a href=" https:="" j.jepun.2016="" j<="" td="">
5. When fully loaded, a giant off-highway truck can hold 290 cubic yards of earth. TRUE
6. Steel has better qualities in the making of machine tools than cast iron. TRUE
7. The use of welding on overland pipelines is limited by their extreme length. FALSE
8. Welding allows more flexibility in the design of freight cars without increasing a car's weight. TRUE

9. The manual plasma arc welding process is extensively used in the fabrication of railroad equipment. FALSE
10. Many hopper cars are now made of aluminum. TRUE
11. Welded passenger coaches are stronger, safer and more comfortable than riveted coaches. TRUE
12. One advantage of welded submarines is their caulked seams. FALSE
13. The welded seams of ships' hulls are not difficult to repair. TRUE
14. Rivet causes high stress concentrations when the plate is loaded. TRUE
15. In building construction, welding is limited to the structural steel frame work and to piping. FALSE
16. Two serious service failures of riveted tanks were leakage and corrosion around rivets. TRUE

17. Welding is used extensively in the fabrication of tanks and pressure vessels because it

FALSE				
Fill in the Blank Questions				
18. The industrial functions of welding are fabrication, maintenance, and				
<u>repair</u>				
19. The advantages of welded equipment are economy, size limitation, strength, rigidity and lightweight. construction				
20. The welded joint can be substituted for heavy sections in the fabrication of construction equipment. reinforcing				
21. The welded joint is as as the sections it joins. strong				
22. The production of energy would not be possible without the use of the welding process. nuclear				
23. Welded pipe is well suited for use in nuclear plants because it can withstand the and high pressure required to operate such installations. high heat				

24. Welded piping systems reduce maintenance costs because their permanently tight connections have greater strength and rigidity
25 fittings make it possible to fabricate any combination of sizes and shapes. Welded
26. A relatively new development in freight-car construction is the super-size, all-welded, gondola. aluminum
27. Prefabrication, preassembly, and welding were first used in the construction of ships during World War II. Liberty
28. For over years, bridges have been constructed wholly or in party the welding process. fifty
29. Steel home construction saves owners thousands in, insurance and energy cost.

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Chapter 02 Industrial Welding Key

Multiple Choice Questions

30. Which one of the following welding processes did not play an important part in household equipment?

A. GTAW

B. GMAW

<u>C.</u> SAW

D. Brazing