

PPSC Chemistry Full Book Test

Sr	Questions	Answers Choice
1	The term 'brass' is very commonly used to designate any alloy primarily of.	A. Copper and zinc B. Aluminum and iron C. Copper and aluminum D. Zinc and nickel
2	Manganese steel usually contains how many percent of manganese.	A. 1 to 5 B. 3 to 10 C. 11 to 14 D. 14 to 18
3	The chrome vanadium steels contain how many percent of vanadium.	A. 0.15 to 0.30 B. 0.05 to 0.15 C. 0.30 to 0.45 D. 0.45 to 0.60
4	The chrome molybdenum steels contain how many percent of molybdenum	A. 0.10 B. 0.20 C. 0.30 D. 0.40
5	The following are primary alloying ingredients of Group H steel except.	A. Molybdenum B. Cobalt C. Chromium D. Tungsten
6	The group H steels can be used in what temperature range.	A. 600 to 1100 °C B. 1000 to 1500 °C C. 1100 to 2000 °C D. 200 to 800 °C
7	What is the approximate chromium range of a ferritic stainless steel.	A. 12% to 18% B. 16% to 20% C. 20% to 24% D. 12% to 16%
8	What term is used to denote a family of thermosetting polymers that are reaction products of alcohols and acids.	A. Alkaline B. Alkydes C. Alcohols D. Ketones
9	What is a process for making glass reinforced shapes that can be general by pulling resin impregnated glass strands through a die.	A. Continuous pultrusion B. Bulk molding C. Vacuum bag forming D. Computational analysis
10	What is the effect of aluminum in cast iron.	A. To increase hardness above 0.5% B. To deoxidize molten cast iron C. To affect machinability, ductility and shrinkage depending on form D. Both A and B
11	What is the effect of manganese in cast iron.	A. To affect the machinability ductility and shrinkage depending on form B. To reduce hardness by combining with sulfur below 0.5% and increase hardness above 0.55 C. To deoxidize molten cast iron D. Have no effect
12	What is considered as the general purpose oldest type and widely used cast iron.	A. Grey iron B. Alloy iron C. Black iron D. Ductile iron
13	Which cast iron is hard and wear resistant.	A. Grey iron B. White iron C. Malleable iron D. Cast steel

		D. None of these
14	Which of the following cast iron is heat treated for ductility.	A. Gray iron B. Malleable iron C. White iron D. None of these
15	Which of the following cast irons is a high carbon silicon alloy.	A. Gray iron B. White iron C. Malleable iron D. Alloy iron
16	Which of the following cast irons is a high carbon, iron carbon silicon alloy.	A. Deorizers B. Deoxidizers C. Deoxidifiers D. Deterrent
17	A steel cannot qualify for stainless prefix until it has at least how many percent of chromium.	A. 10 % B. 20 % C. 5 % D. 30 %
18	What combination of elements has high electrical resistance high corrosion resistance, and high strength at red hear temperatures, making it useful in resistance heating.	A. Aluminium bronze B. Nichrome C. Hastelloy D. None of above
19	What refers to the tin mill steel, without a coating.	A. White plate B. Black plate C. Tin steel free D. Dichromate tin
20	What letter suffix steel identification means that it is steel with boron as an alloying elements.	A. xxL xx B. xxBxx C. xxHxx D. xxKxx
21	What is prefix in steel identification means it is made in an electric furnaced.	A. E B. H C. B D. Z
22	What prefix in steel identification means composition varies from normal limits.	A. E B. B C. X D. F
23	Which of the following statements is NOT true .	A. About 10% of the earth's crust is iron B. Pure iron does not have significant industrial use because it is too weak and soft. C. Steel is an alloy of carbon and iron with limits on the amount of carbon D. None of above
24	What is the purpose of molybdenum in steel alloying.	A. To increase dynamic and high temperature strength and hardness B. To increase brittleness C. To increase corrosion and resistance D. All above
25	The use of acids to remove oxides and acids on hot worked steels is known as	A. Tempering B. Pickling C. Machining D. Sizing
26	Low quality steels with an M. Suffix on the designation intended for non structural application is classified as.	A. Merchant quality B. Commercial quality C. Drawing quality D. Low quality
27	What is the ASTM tension testing designation for standard method for steel products.	A. A 370 B. E 345 C. E8 D. E 9
28	What ASTM test for shear strength is designated for plastics.	A. D 732 B. D 790 C. D 695 D. D 638
29	What ASTM test for compression is designated for plastics.	A. D 638 B. D 695 C. D 790 D. D 732

- A. A 370
 - B. D 638
 - C. E 292
 - D. None of these
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