

MAGNETIC PARTICLE INSPECTION - ENTRANCE EXAMINATION

Student Name	Points Per Item 5.0
Company	Points Awarded
Supervisor	Percentage
Date & Time	
The following preceding the	g questions are True (T) or False (F). Write T or F in each blank space e questions.
1.	A surface crack in a ferromagnetic part will disrupt the lines of force and will create a flux leakage.
2.	Soft steel parts have a high residual magnetism.
3.	Hard steel parts are more difficult to magnetize than soft steel parts.
4.	Coil shots are used to produce circular magnetic fields.
5.	Head shots are used to produce longitudinal magnetic fields.
6. retentively.	Parts with high resistance (reluctance) to magnetic fields also have high
7. discontinuitie	The lines of force should be at right angles to the direction of the es.
8. material.	Permeability refers to the ease with which a magnetic flux is established in a
9.	Magnetic particles are better attracted to subsurface lines of force than they are to leakage fields.
10.	Non-ferromagnetic materials are commonly inspected with the magnetic particle method.
11. hollow parts.	A central conductor may be used to generate circular magnetic fields in
12.	A coil may be used to generate longitudinal magnetic fields.
13.	Prods produce longitudinal magnetic fields.
14.	Hard metals, with a high carbon content, produce wide hysteresis loops.
15. Al	ternating current (AC) is the best choice for locating subsurface discontinuities.



D. Magnetism.

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Stude	ent Name
	ollowing questions are multiple choice. Circle your choice of the correct answer for question. There is only ONE correct answer for each question.
16. need	The wet fluorescent technique differs from the wet visible technique because of the for:
В. С.	. Higher Current . A Black Light. . Different Magnetizing Equipment. . Higher Magnetizing Current.
17.	If the magnetic field strength does NOT increase with an increase in current the point has been reached.
В. С.	. Residual . Retentively . Salient . Saturation
18.	When the magnetic particles are applied sometimes after the current is removed, what technique is employed?
В. С.	. Residual . Continuous . Wet . Dry
19.	When preparing an inspection bath, a certain amount of magnetic particles is used. This is called the bath:
В. С.	Usable Limit. Concentration. Particle Number. Measuring Scale.
20.	The ability of matter to attract other matter is called:
B.	Field Strength. Pole Strength. Coercive Force.