

## TRINITY INSTITUTE OF NDT TECHNOLOGY

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## **MAGNETIC PARTICLE TESTING - ASSIGNMENT**

1.	Magnetic Particle testing is suitable for,materials
	Permeability Means
3.	MPI testing can detect Flaws: Surface / Subsurface / Both
	Reason for having different colour powders in MPI testing
5.	The retentivity of a material describes
	The unit usually used to denote flux density is
7.	Magnetic Flux lines that are parallel to a discontinuity produce Strong/weak/No/Fuzzy
	Indications
8.	An Electric Yoke Produces(Longitudinal / Circular / Radial)magnetic Field
	rule describes the direction of current flow when lines of magnetic force surround
	conductor
10	Magnetic Flux lines
	a) are most dense at the poles of a magnet (T/F)
	b) Seek the path of most resistance (T/F)
11	Subsurface Indication Usually appear as
12	Which MPI testing technique is most sensitive(Continuous / Residual / Interrupted)
13	Effective Technique for detecting subsurface flaws: Dry / Wet (Choose One), AC/HWDC/FWD0
	(Choose One), Permanent magnet/Yoke/Prod (Choose One)
14	Causes of Non Relevant Indications (At least three Causes)
15	(Circular/Parallel/Vectored/Longitudinal) type of magnetization uses Formula:
	Ampere-turns=45000/(L/D)
	Materials which are repelled magnetically are called:(Dia/Para/Ferro)
	The pattern of Iron powder sprinkled on a paper placed over a bar magnet is called a
	What is dark adaptation time?
	Curie Temperature is
	In general, UV light light intensity required for Fluorescent Examination is
	Maximum White light intensity inside darkroom for Fluorescent Examination
	Hysterisis curve describes the relationship between &
	The preferred wavelength for MPI fluorescent examination is around
24	Write 3 safety accessories useful for MPI testing
25	Magnetic Particles should have the(High/low) Permeability and
	(High/Low) Retentivity
	The Best Current for detecting Fatigue Cracks(AC/HWDC/FWDC)
27	When using wet particles in water suspensionagents are added to ensure proper wetting of the part
28	The formula used to calculate current in coil technique if L/D ration is more than 4
	What is coercive force
30	Inspecting a part by magnetizing, removing the current flow, then applying the medium is called(Continuous, Residual, True Continuous)
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