

PENETRANT TESTING – ASSIGNMENT

1. _____(Surface/Subsurface/both) crack can be found in Penetrant testing (PT)
2. Wherever possible _____cleaning methods are not suitable prior to PT
3. Cutting Oils can be effectively removed from the surfaces before PT using _____
(specify pre-cleaning method)
4. Water washable penetrants may be applied by _____(Brushing/Spraying/Both)
5. UV Light if not properly used can damage _____(Tissues/Eyes/Blood Cells)
6. Penetrants enter into the flaw by _____principle
7. Dwell Time means _____
8. Penetrant testing can be used for detecting lack of fusion(subsurface) – T/F
9. Generally accepted dark adaptation time is _____minute/s
10. Principle of Developer in PT is _____
11. Methods of Penetrants _____, _____, _____, _____
12. Before conducting PT, the surface to be tested shall be free of _____, _____, _____
13. Types of Developers used in PT are _____
14. In general PT is suitable for surface temperature range from _____to _____
15. In Fluorescent Penetrant technique the indications appear in _____colour whereas background appear as _____colour
16. Visible Penetrant is available in Level ½, 1, 2, 3, 4 sensitivities (T/F)
17. Sand Blasting is a preferred pre-cleaning method for PT (T/F)
18. The purpose of using Developer _____
19. When using aqueous developer drying is done _____(Before/After/during) developer application
20. _____Penetrant method is most suitable for field or portable applications
21. A Good Penetrant shall have high flash point (T/F)
22. _____Penetrant method is considered most sensitive.
23. Hydrophilic Emulsifier can be applied by brushing method (T/F)
24. Function of emulsifier is _____
25. Emulsifier time should be as long as practical for getting better sensitivity (T/F)
26. _____penetrant method is suitable for threaded bolts
27. One Advantage of Fluorescent penetrant over visible penetrant is _____
28. If the excess penetrant removal is NOT carried properly, the process can be continued by reapplying the penetrant & rewashing again after allowing for dwell time(T/F).
29. Dry Developer is applied in a thick layer for better visibility of indications (T/F)
30. Hot tears are found in castings at _____(Heavy/Thin/Abrupt Change in) Sections

Ref: TINT/PT/A/0222/00