

MEMORANDUM

QUESTION 1

(20 MARKS)

1.1 Name and explain THREE components of paints. (6)

- Pigments ✓ – The pigment in the paint is a finely ground powder which gives the paint its colour and opacity. ✓
- Binder ✓ – It makes the pigment stick to the surface and forms a protective film over the pigment when the paint has dried. ✓
- Solvent ✓ – Solvents are also known as thinners because they thin the paint so that it can be applied. ✓

1.2 What is the use of Fillers and Extenders in paints? (1)

- Fillers and Extenders are added to paints to lower their cost or to alter their properties. ✓

1.3 Name FIVE advantages and dis- advantages of oil – based paints (10)

ADVANTAGES	DIS - ADVANTAGES
Easy to apply ✓	Long dry time ✓
Gives a smooth finish ✓	Have a very strong odour ✓
Hard, durable finish ✓	High levels of VOCs, which are flammable and harm the environment. ✓
Attractive, glossy finish ✓	Brushes must be cleaned with thinners, a harsh solvent. ✓
Washable and easier to keep clean ✓	Not mildew – resistant and therefore not suitable for damp area such as bathrooms and kitchens. ✓
Thick consistency that hides surface imperfections	May peel if the substrate has moisture or has not been properly primed.

1.4 Give THREE reasons why paint may fail. (3)

- Oil – based paints may fail if used on certain building materials. ✓
- Condensation can cause the swelling and shrinkage of the binder, particularly when freshly applied. ✓
- Peeling paint occurs because paint is applied over dirt, grease or loose paint, or because the substrate contained moisture. ✓
- Unsightly wrinkling occurs when paints is applied too thickly.
- Alligatoring is due to the inability of the top coat to bond smoothly to the paint below.

ANY THREE

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RJ Shavelson



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