



MIDTERM EXAM IN CT 312: CONSTRUCTION PAINTING

GENERAL INSTRUCTIONS:

1. Read the instructions carefully before answering.
2. SHADE your best choice of answer in the given ANSWER SHEET.
3. CHEATING is STRICTLY PROHIBITED!
4. If you have clarification and confusions, ASK your proctor, not your classmates.

TEST 1 – MULTIPLE CHOICE

INSTRUCTION: Choose the correct letter of your answer.

1. What is construction painting primarily used for?
 - a. Decoration and protection of surfaces
 - b. Increasing building height
 - c. Replacing construction materials
 - d. Reducing building cost
2. Which of the following best describes construction painting?
 - a. The process of building walls
 - b. The process of applying paint to protect and beautify structures
 - c. The method of mixing concrete
 - d. The system of installing roofing
3. Who is responsible for applying paint and finishes in construction projects?
 - a. Carpenter
 - b. Welder
 - c. Construction Painter
 - d. Mason
4. Which of the following is NOT a role of a construction painter?
 - a. Applying primer and paint coats
 - b. Ensuring surface preparation before painting
 - c. Installing plumbing systems
 - d. Mixing and matching colors
5. What is the basic requirement before painting a surface?
 - a. Ensure it is clean, smooth, and free from dust or grease
 - b. Make sure the paint is colorful
 - c. Apply paint immediately without cleaning
 - d. Cover it with cement
6. Which of the following is an example of a personal attribute required for a construction painter?
 - a. Artistic sense and patience
 - b. Driving skills
 - c. Computer programming knowledge
 - d. Typing speed
7. What is the first coat of paint usually applied on a surface?
 - a. Topcoat
 - b. Primer
 - c. Undercoat
 - d. Finish coat
8. What do surface-oriented paints mainly depend on?
 - a. Type of surface material to be painted
 - b. Price of paint in the market
 - c. Popular paint brand
 - d. Size of the construction site
9. Which of the following is one major purpose of painting wood, metal, or concrete in construction?
 - a. To protect against weathering and corrosion
 - b. To increase the building size
 - c. To strengthen the foundation
 - d. To replace old materials
10. In the occupational map of a construction painter, where does the role primarily fit?
 - a. Decorative finishing works
 - b. Structural steel works
 - c. Plumbing installations
 - d. Electrical wiring systems
11. Why is it important to use a roller instead of a brush for painting large, flat walls?
 - a. Because it is lighter to use
 - b. Because it provides faster and more even

- coverage
- Because it can reach corners better
 - Because it uses less paint
12. Why should paint be stirred thoroughly before application?
- To remove air bubbles
 - To blend pigment and ensure consistent color
 - To make it dry faster
 - To reduce the odor
13. Why is sanding a surface before painting necessary?
- To make the paint dry instantly
 - To allow the paint to adhere better on a smooth surface
 - To increase the shine of the surface
 - To remove brush strokes
14. Why should drop cloths be used during painting work?
- To keep paintbrushes clean
 - To protect floors and furniture from paint drips
 - To help mix paint colors
 - To measure painting area
15. Why must brushes be cleaned immediately after use?
- To keep them looking new
 - To prevent paint from hardening and damaging bristles
 - To save money on buying new brushes
 - To remove dust from the handle
16. What is the importance of using the right type of paintbrush for a job?
- It makes the worker look professional
 - It reduces the cost of paint
 - It ensures better finish and efficiency in painting
 - It prevents brushes from getting lost
17. Why is it necessary to use solvents when cleaning oil-based paints?
- Because water alone cannot dissolve oil-based paints
 - Because solvents give brushes a shiny look
 - Because solvents are cheaper than soap
 - Because solvents change the paint color
18. Why should painting tools be properly stored after cleaning?
- To prevent rust and damage, keeping them usable for future work
 - To make them easier to count later
 - To decorate the toolbox neatly
 - To make painting faster
19. Why is regular maintenance of tools important in construction painting?
- To follow tradition
 - To ensure quality workmanship and prolong tool lifespan
 - To avoid borrowing tools
 - To reduce the number of workers needed
20. Why should paint trays or pans be cleaned after each use?
- To make them look shiny
 - To prevent dried paint from mixing with fresh paint in future use
 - To reduce paint consumption
 - To make the tray lighter
21. A metal gate shows signs of rust before painting. What should you do first before applying primer?
- Apply enamel paint directly
 - Sand and remove rust completely
 - Wash with soap and water only
 - Paint with wood primer
22. You are assigned to paint a wooden door that has rough spots. What is the correct first step?
- Apply varnish immediately
 - Sand the surface smooth
 - Apply enamel paint
 - Add a second coat of wood filler
23. When painting steel bars, which primer should you apply to prevent corrosion?
- Latex primer
 - Red oxide primer
 - Wood sealer
 - White putty
24. A client wants a glossy finish on a wooden cabinet. After priming and sanding, what type of paint should be applied?
- Flat latex paint
 - Enamel paint
 - Water-based paint
 - Aluminum paint
25. You are painting an outdoor wooden fence exposed to rain. Which protective coating should be applied after painting?
- Clear water sealer or varnish

- b. Glue solution
 - c. Cement plaster
 - d. Thinner
26. A metal handrail is already primed. Before applying the topcoat, what is the proper step?
- a. Leave as is
 - b. Sand lightly and clean surface
 - c. Apply putty only
 - d. Wash with thinner and add wood primer
27. When painting a newly built wooden table, what should be applied to fill pores before the final paint?
- a. Red oxide
 - b. Wood filler
 - c. Rust remover
 - d. Epoxy primer
28. You are tasked to repaint a rusty window grill. After removing rust, which type of brush is best to use for narrow metal bars?
- a. Roller brush
 - b. Flat wide brush
 - c. Small round or sash brush
 - d. Ceiling brush
29. A carpenter asks you to choose paint for a kitchen wooden cabinet that needs easy cleaning. Which is the best choice?
- a. Matte paint
 - b. Enamel paint (gloss finish)
 - c. Whitewash
 - d. Flat latex
30. You need to ensure strong adhesion when applying new paint on an old painted metal roof. What should be done first?
- a. Paint directly over the old paint
 - b. Remove loose paint and clean surface thoroughly
 - c. Apply varnish directly
 - d. Use wood prime
31. A steel pipe laid underground shows heavy rusting. Inspection reveals damaged coating and constant exposure to wet soil. What mainly caused the corrosion?
- a. Physical wear
 - b. Electrochemical reaction from moisture
 - c. Excessive heat exposure
 - d. Crack formation from stress
32. A galvanized roofing sheet lasts longer against corrosion than plain steel. Why?
- a. The zinc layer sacrifices itself to shield the steel
 - b. Steel has natural resistance to corrosion
 - c. Paint keeps oxygen away from the metal
 - d. Steel expands more slowly than zinc
33. A steel bridge in a coastal location deteriorates faster compared to one inland. What factor contributes the most?
- a. Temperature levels
 - b. Presence of salt in the air
 - c. Increased rainfall
 - d. Stronger winds
34. To minimize corrosion on chemical storage steel tanks, what is the most effective method?
- a. Applying grease as coating
 - b. Installing a cathodic protection system
 - c. Using only water-based paint
 - d. Covering with plastic sheeting
35. A copper pipe attached directly to a steel pipe corrodes rapidly. What type of corrosion occurs?
- a. Pitting corrosion
 - b. Galvanic corrosion
 - c. Stress-related corrosion
 - d. Crevice corrosion
36. Bolts on a painted steel framework corrode first compared to other parts. What best explains this?
- a. Bolts are of different material, causing galvanic reaction
 - b. Bolts are harder to coat evenly, leaving bare spots
 - c. Bolts attract more moisture
 - d. Bolts are weaker due to their small size
37. A ship hull is coated with epoxy paint, but rust develops where scratches occur. What does this mean?
- a. Epoxy coatings cannot withstand marine exposure
 - b. Damage to the coating leaves steel exposed, which corrodes quickly in saltwater
 - c. Saltwater prevents rusting in scratched areas
 - d. Epoxy chemically reacts with seawater
38. An underground fuel tank is fitted with a magnesium block on its exterior for protection. What method is used?

- a. Stress reduction
b. Cathodic protection with a sacrificial anode
c. Galvanizing
d. Surface passivation
39. A steel machine in a chemical plant corrodes despite having been painted. Investigation shows exposure to strong acids. What additional step should be done?
a. Replace with stainless steel or corrosion-resistant alloys
b. Add another coat of paint
c. Increase the thickness of the steel plates
d. Rinse with water regularly
40. A mild steel water tank corrodes faster at the waterline area. What is the reason?
a. The waterline has more oxygen supply, speeding corrosion
b. The steel is thinner at that part
c. The protective layer is thicker there
d. The waterline has less contact with moisture
41. A client wants a smooth, washable finish for hospital walls. Which coating is most suitable?
a. Flat latex paint
b. Gloss enamel paint
c. Whitewash
d. Oil-based primer
42. For exterior concrete walls in a tropical climate, which coating would provide the best weather resistance?
a. Latex-based exterior paint
b. Interior flat paint
c. Oil primer only
d. Varnish
43. A wooden furniture shop wants a transparent coating that highlights wood grain while giving protection. What should be recommended?
a. Enamel paint
b. Varnish or clear lacquer
c. Flat latex
d. Zinc primer
44. An engineer is deciding between enamel and latex paint for a school classroom. Which is better for durability and easy cleaning?
- a. Enamel paint (semi-gloss or gloss)
b. Latex paint (flat finish)
c. Oil primer only
d. Whitewash
45. A steel gate exposed to rain requires protection. Which coating system is best?
a. Latex paint directly
b. Red oxide primer followed by enamel topcoat
c. Varnish only
d. Whitewash
46. A building owner prefers a non-reflective, inexpensive wall finish indoors. Which type should be chosen?
a. Gloss enamel
b. Flat latex paint
c. Oil-based gloss
d. Epoxy paint
47. For a concrete floor in a warehouse with heavy traffic, which coating gives the best evaluation for performance?
a. Whitewash
b. Latex paint
c. Epoxy floor coating
d. Varnish
48. A wooden deck is exposed to sunlight and rain. Which coating will best evaluate as long-term protection?
a. Water-based interior paint
b. Exterior wood stain with sealer
c. Whitewash
d. Flat latex
49. A client wants a quick-drying coating for metal doors that resists rust. Which should you recommend?
a. Oil-based primer only
b. Epoxy primer and finish
c. Flat latex paint
d. White cement coating
50. An architect is choosing between gloss and matte coatings for a hotel lobby. Which is more practical for cleaning and maintenance?
a. Gloss or semi-gloss finish
b. Matte or flat finish
c. Whitewash finish
d. Varnish only

TEST II – Essay

INSTRUCTION: React concisely with the

following questions. (5 pts. each)

Rubrics for rating.

5	Composition is outstanding. Statements/ideas are precise and concise with correct usage of grammar.
4	Composition is very satisfactory. Statements/ideas are precise and concise with slight problems in grammar.
3	Composition is satisfactory. Statements/ideas are not precise and concise with slight problems in grammar.
2	Composition is poor. Statements/ideas are slightly irrelevant with poor usage of grammar.
0	No composition at all.

51- 55. Explain the importance of surface preparation in construction painting. How does it affect the quality and durability of the paint job?

56 – 60. Discuss the role and responsibilities of a construction painter in ensuring safety, aesthetics, and functionality of a building.

ANSWER SHEET

Year/Section: _____

1	A	B	C	D	16	A	B	C	D	31	A	B	C	D	46	A	B	C	D
2	A	B	C	D	17	A	B	C	D	32	A	B	C	D	47	A	B	C	D
3	A	B	C	D	18	A	B	C	D	33	A	B	C	D	48	A	B	C	D
4	A	B	C	D	19	A	B	C	D	34	A	B	C	D	49	A	B	C	D
5	A	B	C	D	20	A	B	C	D	35	A	B	C	D	50	A	B	C	D
6	A	B	C	D	21	A	B	C	D	36	A	B	C	D					
7	A	B	C	D	22	A	B	C	D	37	A	B	C	D					
8	A	B	C	D	23	A	B	C	D	38	A	B	C	D					
9	A	B	C	D	24	A	B	C	D	39	A	B	C	D					
10	A	B	C	D	25	A	B	C	D	40	A	B	C	D					
11	A	B	C	D	26	A	B	C	D	41	A	B	C	D					
12	A	B	C	D	27	A	B	C	D	42	A	B	C	D					
13	A	B	C	D	28	A	B	C	D	43	A	B	C	D					
14	A	B	C	D	29	A	B	C	D	44	A	B	C	D					
15	A	B	C	D	30	A	B	C	D	45	A	B	C	D					

GOOD LUCK!!



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