



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 I – 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

- c. Because it can reach corners better
- d. Because it uses less paint

12. Why should paint be stirred thoroughly before application?

- a. To remove air bubbles
- b. To blend pigment and ensure consistent color
- c. To make it dry faster
- d. To reduce the odor

13. Why is sanding a surface before painting necessary?

- a. To make the paint dry instantly
- b. To allow the paint to adhere better on a smooth surface
- c. To increase the shine of the surface
- d. To remove brush strokes

14. Why should drop cloths be used during painting work?

- a. To keep paintbrushes clean
- b. To protect floors and furniture from paint drips
- c. To help mix paint colors
- d. To measure painting area

15. Why must brushes be cleaned immediately after use?

- a. To keep them looking new
- b. To prevent paint from hardening and damaging bristles
- c. To save money on buying new brushes
- d. To remove dust from the handle

16. What is the importance of using the right type of paintbrush for a job?

- a. It makes the worker look professional
- b. It reduces the cost of paint
- c. It ensures better finish and efficiency in painting
- d. It prevents brushes from getting lost

17. Why is it necessary to use solvents when cleaning oil-based paints?

- a. Because water alone cannot dissolve oil-based paints
- b. Because solvents give brushes a shiny look
- c. Because solvents are cheaper than soap
- d. Because solvents change the paint color

18. Why should painting tools be properly stored after cleaning?

- a. To prevent rust and damage, keeping

them usable for future work

- b. To make them easier to count later
- c. To decorate the toolbox neatly
- d. To make painting faster

19. Why is regular maintenance of tools important in construction painting?

- a. To follow tradition
- b. To ensure quality workmanship and prolong tool lifespan
- c. To avoid borrowing tools
- d. To reduce the number of workers needed

20. Why should paint trays or pans be cleaned after each use?

- a. To make them look shiny
- b. To prevent dried paint from mixing with fresh paint in future use
- c. To reduce paint consumption
- d. To make the tray lighter

21. A metal gate shows signs of rust before painting. What should you do first before applying primer?

- a. Apply enamel paint directly
- b. Sand and remove rust completely
- c. Wash with soap and water only
- d. Paint with wood primer

22. You are assigned to paint a wooden door that has rough spots. What is the correct first step?

- a. Apply varnish immediately
- b. Sand the surface smooth
- c. Apply enamel paint
- d. Add a second coat of wood filler

23. When painting steel bars, which primer should you apply to prevent corrosion?

- a. Latex primer
- b. Red oxide primer
- c. Wood sealer
- d. White putty

24. A client wants a glossy finish on a wooden cabinet. After priming and sanding, what type of paint should be applied?

- a. Flat latex paint
- b. Enamel paint
- c. Water-based paint
- d. Aluminum paint

25. You are painting an outdoor wooden fence exposed to rain. Which protective coating should be applied after painting?

- a. 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!!



Reviewed by:

Prepared by:

ROMEL P. RECOPUERTO, MTE.
Instructor

IRENE F. BINAQ, MAT.
BIVTE Program Chairman
GLENN S. TALUA, MERE.
BSIT Program Chairman

Approved by:

CHARLIE J. MAGHANOV, Ed.D.
CIT Dean