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7907-503 MARCH 2022
Level 2 Technical Certificate in Painting and Decorating
Level 2 Painting and Decorating – Theory exam

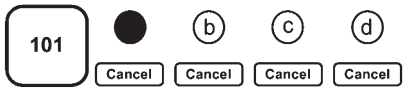
Wednesday 23 March 2022
13:30 – 15:30

You should have the following for this examination
- a multiple-choice answer sheet
- a pen with black or blue ink
- calculator

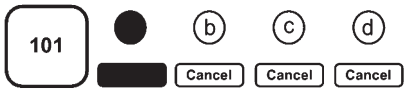
This question paper is the property of City & Guilds Limited and is to be returned after the examination.

Read the following notes before you answer any questions
- You **must** use a pen with black or blue ink to complete **all** parts of the answer sheet.
- Check that you have the correct answer sheet for the examination.
- Check that your name and candidate details are printed correctly at the top of your answer sheet.
- Inform the invigilator if your name or examination details are not correct.
- Each question shows **four** possible answers (lettered 'a', 'b', 'c' and 'd'); only **one** is correct.
- Decide which **one** is correct and mark your answer on the **answer sheet** with your pen.

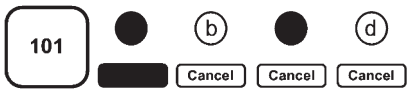
For example if you decide 'a' is correct, mark your answer like this



If you want to change your answer, cancel your first choice by filling in the 'cancel' box below the circle like this



Then mark the answer which you have now decided is correct. For example if you now decide 'c' is correct, mark your answer like this



Any other marks on the form may invalidate some of your answers.

- Any calculations or rough working can be done on the question paper.
- Attempt all questions. If you find a question difficult, leave it and return to it later.

This paper contains 60 questions. Answer them using the 'boxes' numbered 1 to 60 on the answer sheet.

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1 Which work-related injury should be reported to the HSE?

a Fractured arm.
b Strained muscle.
c 5% body burn.
d Hand laceration.

2 If an accident is discovered on site, what is the **first** course of action?

a Call the emergency services.
b Follow site procedure.
c Administer first aid.
d Cordon off the area.

3 What is the **greatest** angle for a roof to be classified as a flat?

a 10 degrees.
b 11 degrees.
c 12 degrees.
d 15 degrees.

4 When redecorating a 1970s house with original windows, what **must** be considered when preparing the woodwork?

a Coating may contain bitumen that needs to be removed.
b Coating may contain lead that needs to be wet abraded.
c Coating may need to be removed because of flaking paint.
d Coating may be water based and needs to be dry abraded.

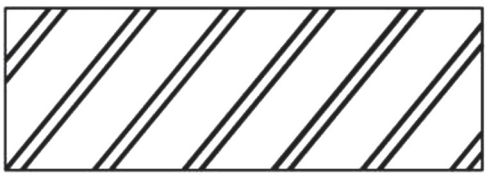
5 What is the benefit of applying water-based gloss to a wall by roller compared to brush?

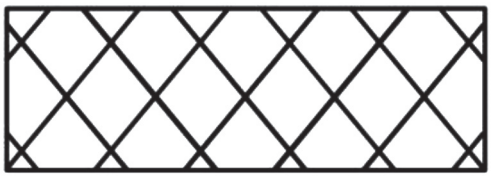
a Less texture on flat surface.
b Faster application method.
c Less preparation required.
d Faster cleaning process.

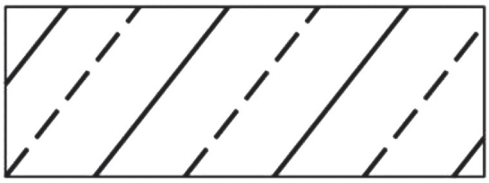
6 Which member of the construction team is **directly** employed by the client?

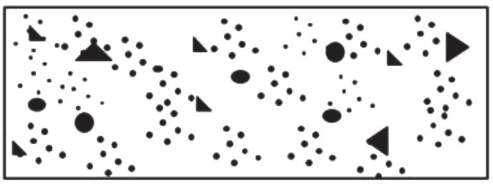
a Sub-contractor.
b Site manager.
c Estimator.
d Architect.

7 Which hatching represents stonework on construction drawings?

a 

b 

c 

d 

8 What is the **best** way to communicate complicated dimensions and shapes in construction contracts?

a Verbal instruction.
b Written word.
c Photographs.
d Scale drawings.

9 Which document details the **sequence** of work activity on a building site?

a Site plan.
b Schedules.
c Specification.
d Programme of works.

10 Which category of construction work would allow for an 18th century building to be brought back to its original condition?

a Maintenance.
b Renovation.
c Domestic.
d Restoration.

11 Which member of the building team is employed by the local authority?

a Clerk of works.
b Planning officer.
c Consultancy engineer.
d Sub-contractor.

12 Which member of the construction team is classified as a craft person?

a Safety officer.
b Site clerk.
c Labourer.
d Plumber.

13 Which type of drawing would be to a scale of 1:2500?

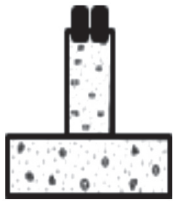
a Site.
b Block.
c Elevation.
d Assembly.

14 Which diagram below is a raft foundation?

a

b

c

d 

15 What type of wall is a stud wall?

a Load bearing interior.
b Load bearing exterior.
c Non load bearing interior.
d Non load bearing exterior.

16 What is the correct course of action if a dent is discovered in the stile of an aluminium ladder?

a Reinforce and continue to use.
b Stop using and place in storage.
c Condemn and remove from use.
d Remove and repair for later use.

17 What information does a 'Scafftag' on a mobile scaffold record?

a Manufacturer's name.
b Maintenance notes.
c Inspection date.
d Assembly guidance.

18 In which situation would the use of a fibreglass extension ladder be advisable?

a In inclement weather.
b On a lawn to prevent damage.
c Working at heights over 5 m.
d Working close to electrical hazards.

19 What is the **best** practice when storing scaffold boards?

a Lay flat on even ground and cover for protection.
b Place on horizontal supports, ensuring air movement.
c Position vertically in a dry ventilated store.
d Place on edge leaning against supporting wall.

20 Why does the HSE state a wooden stepladder should **not** be painted?

a It can hide faults in the wood.
b It can make the surface slippery.
c It can cover manufacturer's information.
d It can conceal resinous areas.

See next page

21 What should be ensured before moving a tower scaffold?

a Safety officers have been notified.
b No paint, tools or people are on the tower.
c No more than one person on the tower.
d Only a qualified person moves the tower.

22 How can the **best** results be achieved when preparing bare timber prior to vanishing?

a Abrade across the grain.
b Abrade along the grain.
c Abrade circularly to the grain.
d Abrade diagonally to the grain.

23 What is the **most** appropriate primer to use on a knotty pine skirting?

a Aluminium wood primer.
b Pink wood primer.
c White wood primer.
d Acrylic wood primer.

24 On which surface does the defect 'Millscale' occur?

a Non-ferrous metal.
b Damp timber board.
c Ferrous metal.
d Plaster board.

25 What is the **best** preparation process when preparing aluminium sheeting on site?

a Wash with warm soapy water and dry off.
b Etch and degrease with emery cloth and white spirit.
c Leave outside to weather to assist with adhesion.
d Abrade with aluminium oxide and prime.

26 On which bare surface is a 'mist coat' used as a primer?

a Aluminium.
b Hardwood.
c Copper.
d Plaster.

27 A new external brick wall has a white fluffy material appearing on the surface. What is it and how should it be removed?

a Mould growth – needs to be washed with warm soapy water and primed.
b Efflorescence – needs to be washed off with bleach and primed.
c Mould growth – needs to be treated with anti-fungicidal wash until clear.
d Efflorescence – needs to be dusted off dry and apply stabilising primer.

28 Which type of gloves offer the **best** protection when degreasing a metal surface?

a Nitrile.
b Leather.
c Cotton.
d Kevlar.

29 Which metal will rust when exposed to moisture?

a Copper.
b Brass.
c Iron.
d Bronze.

30 What is the result of oxidation on steel?

a Rust.
b Mould growth.
c Retarded drying.
d Loss of gloss.

31 Which porous surface requires special preparation?

a Plaster coated with alkali resisting primer to prevent mould growth.
b Iron coated with water based primer to prevent corrosion.
c Teak coated with aluminium primer to prevent discolouration.
d Hardboard coated with oil based primer to prevent resin staining.

32 Which defect is created when oil paint is applied directly onto a lime plastered surface?

a Fungal growth due to high moisture content.
b Pattern staining due to a highly absorbent surface.
c Chalking caused from a reaction with the acidic surface.
d Saponification caused from a reaction of the alkali surface.

33 What is the **main** purpose of 'Proud Filling' when filling in holes?

a Improve adhesion.
b Reduce rubbing down.
c Allow for shrinkage.
d Prevent cracking.

34 What occurs to a wall if the plate of a steam stripper is left on too long?

a Water staining.
b Excess damp.
c Dissolved paper.
d Blown plaster.

35 What is the **most** common risk when removing wall paper manually?

a Scalds.
b Slips.
c Scratches.
d Contamination.

36 What can be reduced by regularly inverting stored paint tins?

a Evaporation of solvent.
b Settling of pigment.
c Formation of paint skin.
d Oxidation of the oil.

37 Which is the **most effective and safest** method to remove paint in a volatile area?

a LPG burning off.
b Liquid paint remover.
c Electric heat gun.
d Dry abrading.

38 What is the **best** way to dispose of old oil based paint?

a Wash down the drain.
b Put in household dustbin.
c Pour onto garden soil.
d Dispose at recycling centre.

39 Why is caulk the **best** material to fill the joint between a wall and the staircase string?

a It is flexible.
b It is quick to dry.
c It is waterproof.
d It is paint resistant.

40 Which process is the term 'undercutting' associated with?

a Paperhanging.
b Making good.
c Painting along cornice.
d Abrading surface.

41 Why are extenders used in paint?

a Intensify colour.
b Provide greater opacity.
c Reduce drying time.
d Increase volume.

42 By which process does emulsion cure when applied to plaster surface?

a Oxidation.
b Polymerisation.
c Coalescence.
d Evaporation.

43 Which property does a thixotropic agent provide when added to a tin of paint?

a Reduction in fumes.
b Increase in viscosity.
c Intensifies colour.
d Reduce drying times.

44 What defect is likely to occur if excessive driers are added to an oil based paint?

a Loss of gloss.
b Cissing.
c Cracking.
d Wrinkling.

See next page

45 On which surface type are 'skid marks' **most** likely to occur when using a roller?

a Brickwork.
b Smooth plaster.
c Embossed paper.
d External render.

46 What defect is caused by over thinning emulsion?

a Misses.
b Bleeding.
c Fading.
d Grinning.

47 What would be the **most** suitable material and method to protect wallpapered walls when repainting the ceiling after a repaired leak?

a Fix and hang tarpaulins around the room.
b Secure hardboard to walls around the room.
c Tape and hang plastic sheeting around the room.
d Pin cloth sheeting around the room.

48 What can intumescent paint produce to make it suitable to be used in a newly renovated kitchen area of a restaurant?

a A porous surface to prevent flame spread.
b A hygienic surface for hot food preparation.
c A low VOC coating that prevents combustion.
d A structure that will give passive fire protection.

49 A client who owns a rendered detached house on a busy road is looking to reduce the time spent on cleaning the exterior walls.
Which modern paint coating material would be the **most** suitable to meet the requirements of the client?

a Nano.
b Thixotropic.
c Polyurethane.
d Micro-porous.

50 The specification for repainting a wooden front door has highlighted rotten wood due to capillary action.
What remedial work needs to be carried out before undercoating and glossing?

a Replace top rail and apply primer.
b Replace lock rail and apply primer.
c Replace bottom door rail and apply primer.
d Replace base of the stiles and apply primer.

51 Which finish would be the **most** suitable to paint an open shower area in a gym?

a Silk emulsion.
b Matt emulsion.
c Oil eggshell.
d Acrylic gloss.

52 A large metal cage and gates containing fuel are to be redecorated. The metal is in a bad condition with flaking paint and rust.
Which method is the **most** efficient for the removal of **all** rust?

a Hand brass wire brushing.
b Hand steel wire brushing.
c Mechanical brass wire brushing.
d Mechanical steel wire brushing.

53 A four panel door is to be undercoated and have a gloss finish.
What would be the **most** suitable set of equipment to use?

a 25 mm and 50 mm roller.
b 50 mm and 100 mm roller.
c 25 mm and 50 mm brush.
d 50 mm and 100 mm brush.

54 What solvent would be used to remove a spillage of shellac knotting on the floor of a busy corridor?

a White spirit.
b Petroleum spirit.
c Methylated spirit.
d Cellulose solvent.

55 When decorating a living room in a private house, how should the furnishings be **best** protected?

a Move the furniture around when needed to, and cover with sheets.
b Move everything out and cover floor and replace at the end of the day.
c Move everything against the walls and cover with sheets, leaving the floor clear.
d Move out what can be removed and put everything else in the middle, cover with sheets.

56 What is the **most** suitable material to protect the light fittings when decorating a ceiling?

a Tarpaulin.
b Hardboard.
c Lightweight plastic.
d Cotton twill dustsheet.

57 What roller sleeve pile would be selected for a sealer or undercoat?

a 4-6 mm pile.
b 10-12 mm pile.
c 16-18 mm pile.
d 28-32 mm pile.

58 What are the properties that pigments bring to the composition of paint?

a Helps to improve the elasticity.
b Helps to strengthen film former.
c Helps the opacity.
d Helps with flow.

59 The term superstructure is used to show a group of construction components on a set of plans. Which components are covered by this term?

a Strip foundations, damp proof membrane.
b Walls, roof timbers.
c Raft foundation, damp proof course.
d Basement, door frames.

60 A new pine timber floor has been fixed and the knots are exuding resin. The decorator has scraped excess resin from the knots.
What other preparations are required before **painting** the floor?

a Abrade along grain and seal with acrylic primer.
b Wash with white spirits, abrade and apply aluminium primer.
c Abrade across grain and seal with wood primer.
d Wash with methylated spirits, abrade, and apply thinned varnish.

NOW GO BACK AND CHECK YOUR WORK

- IMPORTANT -
  Are the details at the top of the answer sheet correct?
  Have you filled in your answers in INK in the appropriate boxes on the answer sheet?