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City & Guilds

7907-501 JUNE 2018
Level 3 Advanced Technical Diploma in Painting and Decorating (450)
Level 3 Painting and Decorating – Theory exam

If provided, stick your candidate barcode label here.

Wednesday 20 June 2018
09:30 – 11:45

Candidate name (first, last)

First

Last

Candidate enrolment number

Date of birth (DDMMYYYY)

Gender (M/F)

Assessment date (DDMMYYYY)

Centre number

Candidate signature and declaration*

- If any additional answer sheets are used, enter the additional number of pages in this box. ➡ 0 0
- Please ensure that you **staple** additional answer sheets to the **back** of this answer booklet, clearly labelling them with your full name, enrolment number, centre number and qualification number in BLOCK CAPITALS.
- All candidates need to use a **black/blue pen. Do not** use a pencil or gel pen.
- If provided with source documents, these documents **will not** be returned to City & Guilds, and will be shredded. **Do not** write on the source documents.

***I declare that I had no prior knowledge of the questions in this assessment and that I will not divulge to any person any information about the questions.**

You should have the following for this examination
- a pen with blue or black ink
- non-programmable calculator

General instructions
This question paper is the property of City & Guilds Limited and should be returned after the examination.
- This examination contains **25** questions. Answer **all** questions.
- Section A – consists of **10** multiple choice questions, each carrying 1 mark.
  - Indicate your response (a, b, c or d) in the space provided.
- Section B – consists of **15** structured/short answer questions.
  - Answer the questions in the space provided.
  - The marks for each question are shown in brackets.

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Section A

1 What regulation does the sign shown in Figure 1 relate to? (1 mark)

Figure 1

a) CDM
b) PPE
c) COSHH
d) RIDDOR

Response: _____

2 Why would oral communication be used by a foreman to convey a change in specification to the decorating team? (1 mark)

a) Information can be passed on quickly.
b) Information can be easily understood.
c) Important information can be recorded.
d) Large information can be passed on efficiently.

Response: _____

3 Why should customers be provided with an estimate? (1 mark)

a) It provides a legally binding price for the work.
b) It ensures the price given is the final total cost.
c) It ensures a verbal agreement for the final total cost.
d) It provides a variable price for the work.

Response: _____

4 What insulation material has the highest thermal resistance? (1 mark)

a) Expanded polystyrene.
b) Polyisocyanurate.
c) Mineral wool.
d) Hemp rolls.

Response: _____

5 What type of access equipment should be used when painting a window on a gable end of a two storey house over an adjoined gabled garage roof? (1 mark)

a) Roof ladder.
b) Tower scaffold.
c) Triple extension ladder.
d) Mobile elevated working platform.

Response: _____

6 Why are registration marks used on multi-plate stencils? (1 mark)

a) To align layers.
b) To prevent creep.
c) To prevent movement.
d) To keep the stencil flat.

Response: _____

7 What BS 4800 ground colour is used for creating a mid-oak graining effect? (1 mark)

a) 00E55
b) 04D44
c) 08C35
d) 12B15

Response: _____

8 What is the name of the tool used to apply loose gold leaf? (1 mark)

a) Gilders tip.
b) Gilders mop.
c) Gilders fitch.
d) Gilders burnisher.

Response: _____

See next page

9 What is the spray fan width of the airless spray tip shown in Figure 2, when sprayed at 12 inches from the surface? (1 mark)

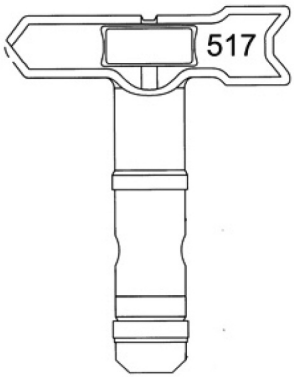

Figure 2

a) 5 inches.
b) 10 inches.
c) 17 inches.
d) 20 inches.

Response: _____

10 What is the purpose of a tip guard on an airless spray set-up? (1 mark)

a) Protect tip from blockage.
b) Prevent paint overspray.
c) Protect from paint injection.
d) Maintain even spray pattern.

Response: _____

Section B

11 State **two** benefits of using a Gantt chart for planning delivery of materials. (2 marks)

12 Identify **two** advantages of a closed tender for a client. (2 marks)

13 A domestic lounge requires repainting with vinyl matt emulsion.
Two coats will be required on all surfaces.

Decorators notes of costs and dimensions	
Area of walls	62 m^2
Area of ceiling	31 m^2
Paint coverage	12 m^2/l
Labour cost	£2.50/m^2
VAT	20%
Paint cost/ltr tin	£7

Table 1

Using Table 1, calculate all costs for labour and materials to produce a total cost. (3 marks)

See next page

14 A decorator is using a steam stripper within an entrance foyer.
Complete the risk assessment for this activity. (5 marks)

RISK ASSESSMENT FORM	
1. Identify hazard	
2. Identify risk	
3. Who is at risk?	
4. Safety measures	
5. Review process	

15 State **two** installations that can be used to improve the EPC rating of a domestic property. (2 marks)

16 What **two** tools are used to produce the pore marks when creating an oak grain effect? (2 marks)

17 a) Identify **two** ways to adhere multi-plate stencils to the surface. (2 marks)

b) Explain **two** advantages for one of the answers given in part 17a). (4 marks)

18 Compare differences between a 'Guardrail' and a 'Toe board on a supported scaffold. (4 marks)

19 Describe the different visual effects of **three** application methods used to apply prominent veining to a marble effect. (6 marks)

See next page

20 Explain **four** actions that should be carried out after cleaning airless equipment, before it can be placed in long term storage. (8 marks)

21 Identify component A and B in the LEV system shown in Figure 3. (2 marks)

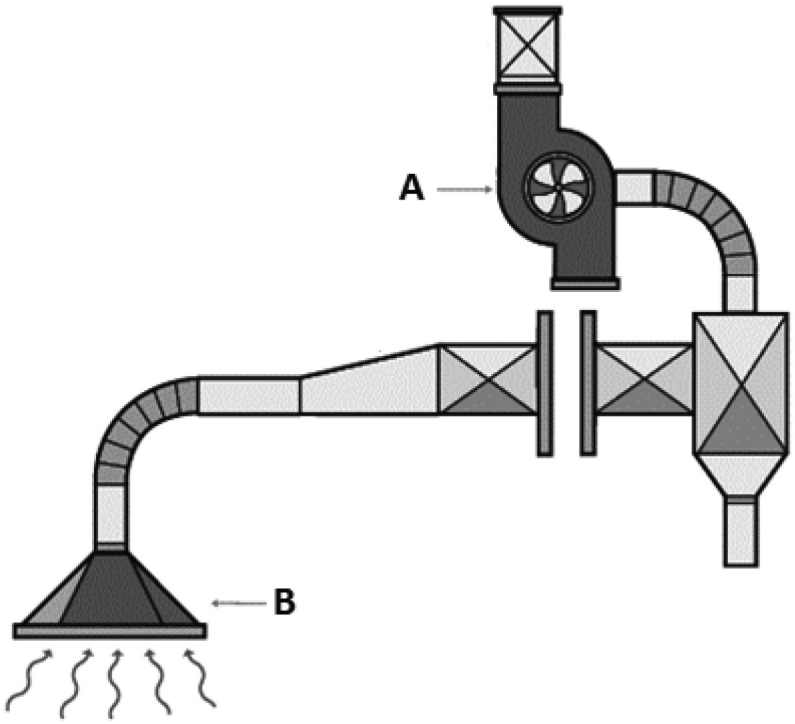

Figure 3

22 State **two** pieces of equipment that help ensure the viscosity consistency through various paint batches. (2 marks)

23 Explain how the application fault 'triggering' can occur at the beginning and end of each pass on an airless spray gun. (2 marks)

24 Identify **two** methods of storing scaffold boards. (2 marks)

See next page

25 The frontage of a new warehouse building requires decoration. The area is of a new blockwork construction and is approximately 25 m long and 4 m high.
The area is to be finished with 3 coats of a smooth water based masonry paint.
The warehouse is off road and has a hard-tarmac ground construction around the building.
Spreading rate of masonry paint is 8 m^2/litre.

Propose a plan of works including quantities of materials required to carry out the redecoration of the warehouse. (12 marks)

End of examination