

CAMEROON GENERAL CERTIFICATE OF EDUCATION BOARD
Technical and Vocational Education Examination



MATERIALS AND PAINT TECHNOLOGY 1
5165

JUNE XXXX

INTERMEDIATE LEVEL

Centre No. & Name	
Candidate No.	
Candidate Name	

Mobile phones are **NOT** allowed in the examination room.

5165 MATERIALS AND PAINT TECHNOLOGY 1: MULTIPLE CHOICE QUESTION PAPER

1 hour 30 minutes

INSTRUCTIONS TO CANDIDATES

Read the following instructions carefully before you start answering the questions in this paper. Make sure you have a soft HB pencil and an eraser for this examination.

- USE A SOFT HB PENCIL THROUGHOUT THE EXAMINATION.
- DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

Before the examination begins:

- Check that this question booklet is headed "**Intermediate Level – 5165 MATERIALS AND PAINT TECHNOLOGY 1**".
- Insert the information required in the spaces above.
- Insert the information required in the spaces provided on the answer sheet using your HB pencil:

Candidate Name, Exam Session, Subject Code, Centre Number and Candidate Number.

Take care that you do not erase or fold the answer sheet or make any marks on it other than those asked for in these instructions.

How to answer the questions in this examination:

- Answer **ALL** the **50** questions in this Examination. All questions carry equal marks.
- Each question has **FOUR** suggested answers: **A, B, C** and **D**. Decide which answer is correct. Find the number of the question on the Answer Sheet and draw a horizontal line across the letter to join the square brackets for the answer you have chosen.
For example, if **C** is your correct answer, mark **C** as shown below:
[A] [B] **[C]** [D]
- Mark only one answer for each question. If you mark more than one answer, you will score a zero for that question. If you change your mind about an answer, erase the first mark carefully, then mark your new answer.
- Avoid spending too much time on any one question. If you find a question difficult, move on to the next question. You can come back to this question later.
- Do all rough work in this booklet, using, where necessary, the blank spaces in the question booklet.
- You must not take this booklet and the answer sheet out of the examination room. All question booklets and answer sheets will be collected at the end of the examination.**

Turn Over

1. The automobile bodywork repairer is a professional who

A	does restoration of bodywork and painting renovation of the vehicle
B	carry out spraying renovation of paint on the vehicle
C	does painting renovation of the vehicles
D	does restoration of the body and engine components of the vehicle

2. Give one purpose of Painting the vehicle

A	Fuel economy
B	Improve external appearance,
C	Increases engine performance
D	reduce collision

3. A Paint formulated with varnish to give a reflective coating and water resistance is called

A	urethane-modified alkyds
B	Enamel
C	aluminum paint
D	acrylic-urethane

4. Identify the grade of paper to be used for the sanding of a dry primer

A	P500 and 1500
B	P320 and 500
C	P320 and 800
D	P100 and 320

5. What is used to push out contaminated air to take fresh air during spraying

A	Natural ventilation is a method
B	Local ventilation is a method
C	dilution ventilation is a method
D	Electrical ventilation is a method

6. Give the full meaning the abbreviation HVLP

A	High volume low pressure
B	Heavy volume low pressure
C	Heavy valve low pressure
D	High volume low process

7. The _____ is a coating system whose role is primarily decorative and often imparts protection to ultra violet light present in sunlight.

A	Top coat
B	Base coat
C	Surface
D	Sealer

8. list A chemical primarily used in oil base paints which promotes oxidation

A	Drier
B	Vanish

C	Acid
D	Binder

9. The dimpled appearance of a dried paint film is

A	Acid rain
B	Bird dropping
C	Runs
D	Orange peel

10. The most commonly used and versatile socket handle is the

A	Ratchet
B	flex bar
C	breaker bar
D	speed handle

11. One of the best kind of hammer for bodywork repairs is

A	dead blow
B	Brass
C	Sledge
D	Ball peen

12. Pneumatic Power tools are tools that use:

A	Electricity
B	compressed air
C	Hydraulics
D	Oil

13. A process of applying primers as one of the finishing material for large industrial bodywork production is -----

A	Dipping
B	Spraying
C	Brushing
D	Sanding

14. Grooves on bodywork surfaces are mostly caused by the use of

A	Hand sanding
B	Disc sanding
C	Block sanding
D	Body filing

15. The best grade of grit paper is

A	P800
B	P80
C	P60
D	P600

16. How does one notice a smooth surface on the treated zone during grinding

A	By smelling with the nose
B	By feeling with the hand
C	By vision with the eye
D	By filing with a file

17. Stoppers are materials of high solid content used for

A	Provides surface adhesion
B	Filling of holes and provides level surfaces
C	Promote easy paint drying time
D	Stopped the first coat of paint dripping

18. A single pack epoxy paint dry by

A	Solvent evaporation
B	Oxidation
C	Chemical reaction
D	Coalescence

19. The instrument used in measuring the absorbance of colour

A	Colourmeter
B	Coulometer
C	Colorimeter
D	Calorimeter

20. Choose one Refinishing materials

A	reducers.
B	hammer
C	structural adhesive
D	Mallet

21. Identify the process used to repair minor cracks and tears in thermosetting plastic components

A	Plastic welder
B	Polyester putty
C	Filler adhesives
D	Structural bonding tape

22. To remove orange peel from a painted surface, the painter should use wet sand with

A	P1200
B	P600
C	P400
D	P320

23. The masking tape on a freshly painted vehicle has gotten damp overnight. The tape should be removed

A	after the tape has completely dried
B	when detailing begins
C	when trim-out is complete
D	as soon as possible

24. After high-strength steel is heated, it should be cooled by

A	spraying it with cold water
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B	air hosing it
C	letting it cool naturally
D	wiping it with oil

25. The source of all colour is

A	White
B	Eye
C	Black
D	Light

26. The Names of the tertiary colours are:

A	Orange, green, violet
B	Black, white, indigo
C	Citrine, Olive, Russet
D	Red, Yellow, orange

27. The word triadic means:

A	The colour circle is divided into three (3) equal divisions
B	The colour circle is divided into three (12) equal divisions
C	The colour circle is divided into three (6) equal divisions
D	The colour circle is divided into three (9) equal divisions

28. Choose two types of paint chemicals used for surface finishing on the top coat

A	Varnish and binder
B	Varnish and hardener
C	Varnish and pigment
D	Varnish and solvent

29. The tools used to remove dents and to smooth out a shape of the damaged areas are

A	Spoons, dinging hammers, and dolly blocks
B	Spoons, dinging hammers, and files
C	Spoons, dinging hammers, and hydraulic jack
D	Spoons, dinging hammers, and vise grip pliers

30. The first step in preparing a bare metal surface for corrosion protection is

A	Clean with lacquer thinner
B	Clean with soap and water
C	Sand and coarse sand paper
D	Clean with wax and grease removal

31. The three properties of colour are

A	Hue, Value, Texture
B	Intensity, Hue, Perspective
C	Value, Intensity, Shape
D	Hue, Intensity, Value

32. A colour wheel is defined as

A	Arrangement of primary colors
B	Arrangement of colors in a spectrum
C	Arrangement of color values
D	Arrangement of secondary colors

33. light source will emit-----in the eyes as you observe

A	Black colours
B	White colour
C	Yellow colour
D	Image colour

34. By mixing complimentary colors you will get

A	Brown
B	Black
C	White
D	Grey

35. select one type of paint

A	Thinner paint
B	Resin paint
C	Solvent paint
D	Oil paint

36. The meaning of MAG used in thermal assembly

A	Material l Assembly Gas
B	Melting Aluminium Gas
C	Metallic Argon Gas
D	Metal Active Gas

37. Sealers are materials applied in thin coat to Prevent

A	paint viscosity
B	sortage of paint
C	passage paint substance from reaching other coat
D	paint from crack and burnt

38. The use of a disc sander in body work shop is

A	to grind the vehicle surface
B	to smooth surfaces by abrasion with sandpaper
C	to shine the surface
D	to remove dirt

39. The heaviest hammer used in body work is

A	Lead
B	Brass
C	Sledge
D	Dead blow

40. One reason why acetylene cylinder should not be used while lying down is

A	Acetylene will be trapped in the regulator
B	Acetone will flow from the acetylene cylinder
C	Acetylene will not flow through freely

D	Oxygen and acetylene will not mix evenly
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41. One method used to determine shortness on one side of a frame

A	Camber gauge
B	Cross measurements
C	Datum line specifications
D	Comparison measurements

42. How is body filler mixed to ensure proper catalyzation

A	Shake hardener and filler in small container
B	Mix filler and hardener on cardboard mixing board.
C	Fold colour hardener and filler together until uniform in colour
D	Stir coloured hardener and filler together until uniform in colour

43. Another name for a first coat is

A	Under coat
B	Top coat
C	Pigment
D	Binder

44. An Air compressor is driven by

A	Heavy duty engine
B	Starter motor
C	hydraulic cranking
D	Electric motor

45. An activator curing agent in paint is called

A	Binder
B	Primer
C	Hardener
D	sealer

46. Identify the type of oxyacetylene flame used in welding

A	Natural flame
B	Neutral flame
C	Vapour flame
D	High flame

47. One type of material weldered with Neutral flame is

A	Steel
B	Cast iron
C	Copper
D	Brass

48. Identify an equipment used for safety by painter in a painting shop

A	Hammer
B	Screw driver

C	Fire extinquisre
D	Air compressor

49. The type of welding generally used for automobile body work is

A	Gas welding
B	Arc welding
C	Spot welding
D	Seam welding

50.

Which component is aligned first when repairing a vehicle with severe side or rear collision damage

A	Front door
B	Rear door
C	Front door window
D	Rear door window