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CAMEROON GENERAL CERTIFICATE OF EDUCATION BOARD
Technical and Vocational Education Examinations

Mechanical construction and development. 1
5160

JUNE XXXX **INTERMEDIATE LEVEL**

Centre No. & Name	
Candidate No.	
Candidate Name	

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

MECHANICAL CONSTRUCTION AND DEVELOPMEMT 1
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.

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

Before the examination begins:

3. Check that this question booklet is headed "Intermediate Level –
5160 **MECHANICAL CONSTRUCTION AND DEVELOPMEMT 1**
1: MULTIPLE CHOICE QUESTION PAPER

4. Insert the information required in the spaces above.
5. 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:

6. Answer **ALL** the **50** questions in this Examination. All questions carry equal marks.
7. 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:

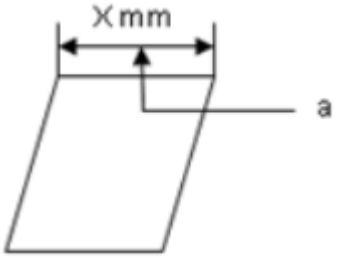
   [A] [B] [C] [D]

8. 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.
9. 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.
10. Do all rough work in this booklet, using, where necessary, the blank spaces in the question booklet.
11. **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.**

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1. Choose a type of line used for line



A Continuous thick line
B Continuous thin wavy line
C Medium thick short dashes line
D Continuous thin straight line

---

2. Which type of line is part of a dimension?

A Break lines
B Phantom lines
C Extension lines
D Cutting plane lines

---

3. Which type of line is particular to section drawings?

A Break lines
B Phantom lines
C Extension lines
D Cutting plane lines

---

4. Which angle cannot be made with either a 45 or 30/60 triangle or a combination of the two?

A 90
B 70
C 30
D 15

---

5. A drawing instrument set usually contains all of the following, except

A bow compass
B scale
C dividers
D extra leads

---

6. A tangent line is a line that touches a curve or a circle at

A only one point on a curve
B two major points on a curve
C an intersection point
D A symmetrical point

---

7. Which line type is thin and light?

A Visible lines
B Center lines
C Construction lines
D Plattom lines

---

8. Which line type is thick and black?

A Visible lines
B Center lines
C Construction lines
D Plattom lines

---

9. the instrument that supports the drawing paper

A Table
B Drawing table
C A board
D Set square

---

10. short thin dashes are used to represents

A Sectioning
B Dividing
C Drawing
D T-square

---

11. Which type of line is used to represent invisible details?

A a hidden line
B a center line
C a visible line
D dimension line

---

12. Which statement is true about the precedence of lines?

A a hidden line has precedence over a center line
B a center line has precedence over a visible line
C a visible line has precedence over a miter line
D A miter line has precedence over a centre line

---

13. which are the lines that shouldn't cross each other?

A vanishing line
B ground line
C horizon line
D Thick lines

---

14. one device used to fasten two pieces:

A bearing

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B Screw driver
C A shaft
D Square key

15. one type of screw head is.
A countersunk head screw
B Plan head
C Flat head
D Round head

16. name three types of drawing
A Round drawing
B Sketches
C Rectangle
D Circle

17. A cutting plane normal to a face of a cube has to be _____ in order to cut an oblique face.
A rotated about one axis
B rotated about one axis and translated
C rotated about two axes
D rotated about two axes and translated

18. what is the height of a title block
A 60cm
B 40cm
C 40mm
D 30cm

19. parallel lines are lines that
A Never meet
B Have equal distances
C The same height
D Have the same thickness

20. one property of a circle is:
A Chord
B Concurrent point
C Parallel line
D Thick lines

21. Da right angle triangle is:
A 30^0
B 60^0
C 45^0
D 90^0

22. Simple solid can be classified in to those with:
A Parallel and leading sides
B Parallel and dihedral sides
C Parallel and radial sides
D Perpendicular and radial sides

23. In offset sections, offsets or bends in the cutting plane are called:
A 90 degrees
B 180 degrees
C 135 degrees
D 30, 60, or 90 degrees

24. it is used to draw angles
A Protractor
B Divider
C Compass
D T-square

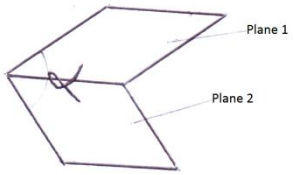
25. Which of the method below is the best in developing an oblique pyramid
A Triangulation method
B Pyramidal method
C Radical line method
D None of the above

26. A transition piece is a solid of:
A two or more geometrical surfaces
B one geometrical surface
C an upper and lower base
D One plane surface

27. A pentagon is a figure with
A 3 sides
B 4 sides
C 5 sides
D 8 sides

28. An ellipse has two main axis namely
A Upper and lower axis
B Major and Upper axis
C major and minor axis
D Middle and extreme axis

29. What can you see in the figure below



A Plane angle
B Dihedral angle
C Angle of elevation
D Pane 1 and plane 2

30. What section will be obtained from a cutting plane that is perpendicular to the central axis of a rectangular right pyramid:
A Circular section
B Square section
C rectangular section
D cylindrical section

31. According to descriptive geometry, a line is in true length when

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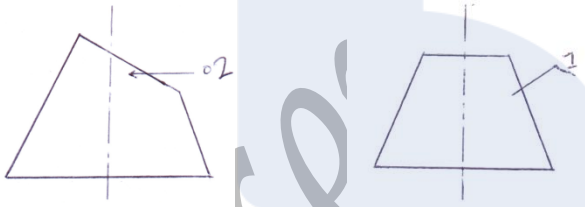
A Two of its projection are parallel to the reference line
B one of its projection are parallel to the reference line
C Three principle plane being perpendicular
D Three principal planes being parallel

32. Two planes are said to be parallel if it makes an angle of
A 30^0
B 45^0
C 90^0
D 0^0

33. The true shape of geometrical solid is obtained by
A Passing the cutting plane perpendicular to its central axis.
B Passing the cutting plane at an angle of 45^0
C Passing the cutting plane parallel to its central axis
D Passing the cutting plane at an angle of 15^0 to the horizontal^0

34. The following figure has two directrix
A Parabola
B Hyper bola
C Circle
D Elipse

35. Below are two transformers, which is the one with no parallel base



A 1
B 2
C 3
D 2 and 1

36. The appropriate method employed for the development of transition piece is
A Parallel line method
B Radical line method
C Complex method
D None of the above

37. Which of the following scale is used for enlargement
A 5:1
B 1:5
C 1:1
D 1.5

38. Which of the scale is reduced scale
A 5:1
B 1:5
C 1:1
D 2.2

39. Which of the following scale is full size scale
A 5:1
B 1:5
C 1:1
D 1.1

40. An acute angle is angle
A angle less than 90^0
B angle more than 90^0
C angle between 90^0 to 180^0
D 91^0

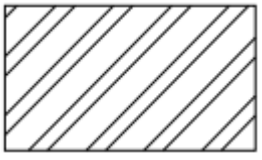
41. A reflex angle is
A angle less than 90^0
B angle more than 90^0
C angles between 120^0 to 360^0
D angles between 90^0 to 360^0

42. The directrix is a fixed straight line at the end of an eclipse and is,
A Right angle to the minor axis
B Right angle to the x, y plane
C Right angle to the major axis
D Perpendicular line to the major axis

43. The final presentation of a design idea should be in the form of a
A Detail drawing
B Working drawing
C Pictorial drawing
D 3D drawing

44. Views of an object presented in two dimensional forms showing the overall height and either the overall length or width is known as :
A Pictorial drawings
B Assembly drawings
C Orthographic drawings
D Fabrication drawing

45. identify the type of material represented by the drawing below



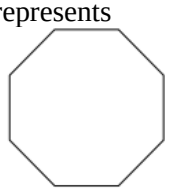
A steel
B wood
C brass

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D glass

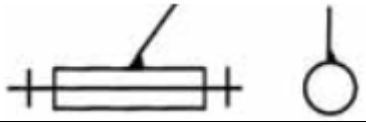
46. Cylindrical pieces are symetrical about:
A The edges
B Centre line
C Parallel line
D Surface line

47. The shape below represents



A	Pentagon
B	Heptagon
C	Octagon
D	Decagon

48. 16. identify the type of link below



A	Sliding link
B	Pivot link
C	Fixed link
D	Helical link

49. The function of a bearing is eliminate

A	Movement
B	Hard sliding
C	Lubrication
D	Friction

50. What is the radius of a circle with Ø 27dam
A 13.55cm
B 135mm
C 13.5cm
D 1350mm

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