



Plumbing Network Drawing1  
5455

JUNE XXXX

INTERMEDIATE LEVEL

Centre No. & Name	
Candidate No.	
Candidate Name	

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

**5455 PLUMBING NETWORK DRAWING 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 – 5455 Plumbing Network Drawing 1.
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.**

*Turn Over*

1. A technical idea is best express by:

A	Literature.
B	Technical drawing.
C	Gestures.
D	Discussions.

2. The best method used in the execution of technical drawing is :

A	By words.
B	By traces.
C	By speech.
D	By writing.

3. Parallel lines are:

A	Perpendicular lines.
B	Intersecting lines.
C	Lines that do not meet.
D	Vertical lines.

4. A rhombus is a geometric plane figure having:

A	Four sides and diagonals that a perpendicular.
B	Three sides.
C	$180^\circ$ as the sum of internal angles.
D	Diamond shape size.

5. Multiview drawing is:

A	Isometric projection of an object.
B	The orthogonal projections of the views of an object.
C	The 1 <sup>st</sup> angle projection of an object.
D	The conical perspective projection of an object.

6. A Bisector is:

A	A line that divides a line into two equal parts.
B	A line that connects two points.
C	A perpendicular line.
D	A parallel line.

7. A line is drawn from:

A	Two points.
B	One point.
C	Three point.
D	No point.

8. A line is materialized and drawn on the drawing paper with:

A	Building line.
B	Compass.
C	Protractor.
D	Graduated ruler.

9. The other two angles of a standard set square whose angle is  $60^\circ$  are:

A	$30^\circ, 90^\circ$
B	$60^\circ, 60^\circ$
C	$90^\circ, 90^\circ$
D	$45^\circ, 90^\circ$

10. The dimensions of an A5 drawing format is:

A	Half of an A4.
B	Double the format of an A4.
C	Equal the size of an A4.
D	210 x 297.

11. The dimensions of an A1 drawing format are:

A	595 x 840.
B	594 x 841.
C	595 x 841.
D	594 x 840.

12. The drawing format A0 is classify as:

A	The biggest drawing format.
B	The smallest drawing format.
C	An average drawing format.
D	The most flexible drawing format.

13. A tangent is:

A	A perpendicular line.
B	A parallel in.
C	A line that touches a circle at a point.
D	A connecting line.





14. The title block of an architectural drawing is drawn in a:

A	Format A3.
B	Format A2.
C	Format A4.
D	No format.

15. Pick out which is not a solid:

A	Pyramid.
B	Cone.
C	Cylinder.
D	Triangle.

16. Select the construction line:

A	
B	
C	
D	

17. Choose the line which is use in materializing the centre of an object:

A	
B	
C	
D	

18. Plumbing fixtures are presented by :

A	Heavy mix lines.
B	Broken lines.
C	Mix faint lines.
D	Medium Continous lines.

19. Borders that are seen and not sectioned are represented by :

A	
B	
C	
D	

20. The axis of the cold water pipeline is executed in:

A	Averagely thick continuous lines.
B	Broken line with zigzag.
C	Border lines.
D	Mix lines (centre lines).

21. Find the value of  $30^\circ$  in radians:

A	$\frac{\pi}{4}$
B	$\frac{\pi}{8}$
C	$\frac{\pi}{6}$
D	$\frac{\pi}{3}$

22. A right angle is equal to :

A	$\frac{\pi}{2}$
B	$\frac{\pi}{3}$
C	$\frac{\pi}{4}$
D	$\frac{\pi}{5}$

23.  $\frac{\pi}{4}$  = to :

A	$90^\circ$
B	$180^\circ$
C	$45^\circ$
D	$60^\circ$

24. A scalene triangle is:

A	Three equal angles.
B	Three unequal angles and three unequal sides.

C	Two equal angles.
D	Three equal sides.

25. The value of the internal angle of an equilateral triangle is :

A	$60^\circ$
B	$45^\circ$
C	$30^\circ$
D	$90^\circ$

26. A hexagon has :

A	Three sides.
B	Four sides.
C	Five sides.
D	Six sides.

27. A decagon has :

A	Seven sides.
B	Ten sides.
C	Nine sides.
D	Eight sides.

28. A parallelogram is a geometric figure that has a:

A	Length and width.
B	Length, width and height.
C	Length and diameter.
D	Width and radius.

29. A cube is a solid having a:

A	Length and width.
B	Length , width and height.
C	Length and diameter.
D	Width and radius.

30. A frustum is a geometric solid whose top is:

A	Cut by a cutting plane.
B	Parallel to the frontal plane of projection.
C	Perpendicular to the frontal plane of projection.
D	The same as the base.

31. Select the scale which is in true shape (size):

A	0,05
B	$\frac{1}{50}$
C	1
D	2

32. An object has a length of 10m, find the scale length on paper with draw to  $\frac{1}{20}$  :

A	50 cm.
B	500cm.
C	5 cm.
D	0.5 cm.

33. An object has a scaled length of 10cm on paper,

Turn over

find the actual length if it is drawn to  $\frac{1}{20}$  :

A	200 m.
B	20 m.
C	2 m.
D	0,2 m.


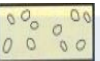
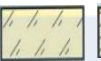

34. Cross-hatching is executed in:

A	Mix faint lines.
B	Faint continuous lines.
C	Heavy continuous linest.
D	Heavy broken lines.



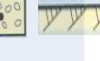

35. Cross-hatching lines are inclined to:

A	20°
B	90°
C	45°
D	120°

36. Select the standard convention for representing concrete :

A				
B				
C				
D				

37. Select the standard convention for representing soil :

A				
B				
C				
D				

38. 120° is the common angle use in which type of projections:

A	Isometric projection.
B	Dimetric projection.
C	Trimetric projection.
D	Oblique projection.

39. 30° in relation to the horizontal plane is the sight projectors of :

A	Oblique projection.
B	Isometric projection.
C	Trimetric projection.
D	Dimetric projection.

40. The coefficient 0,5 is the reduction coefficient of :

A	Oblique projection.
B	Dimetric projection.
C	Trimetric projection.
D	Isometric projection.

41. A cylinder is made up only of :

A	Two bases and two heights.
B	A base and height.
C	Two bases and a height.
D	A base and two heights.

42. A truncated cone has:

A	A big base and two smaller bases.
B	A big base and a smaller base.
C	A big base, a small base and a height.
D	A base and two heights.


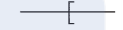


43. The projected view of an object has:

A	Two dimensions.
B	Three dimensions.
C	One dimension.
D	No dimension.




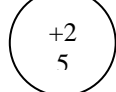
44. The direction of flow of a fluid is indicated by:

A	A point.
B	An arrow.
C	Three arrows.
D	A notice.


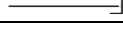

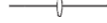
45. The slope of a pipeline is represented by:

A	
B	
C	
D	





46. An elevation altitude is represented by :

A				
B				
C				
D				

47. Identify the cap on a pipeline:

A	
B	
C	
D	

48. Identify a closed valve on a pipeline:

A	
B	
C	
D	

49. A single line fluid network is drawn in :

A	Straight line.
B	Two lines.
C	Several lines.
D	Three lines.

50. A double line fluid network is drawn in:

A	Straight line.
B	Two lines.
C	Three lines.
D	No lines.

