

**UEB TECHNICAL
PRACTICE TEST INSTRUCTIONS**

- Use 40 cells per 25 braille lines per braille page.
- The only braille on line 25 is your name and the page number. Begin your name in cell 1. Begin the page numbering with 1 and end each page number in cell 40.
- There is no relationship between any of the technical items to be brailled. They are all taken out of context.
- There may be more than one correct answer to a question.
- Format choice will not be part of the test.
- Transcribe your answers using the following format:
 - place the question number at the left margin on a line by itself;
 - braille your answer beginning at the left margin on the next line; and
 - leave a blank line before the next question number.

1.
Your brailled answer
Blank line
2.
Your brailled answer
Blank line
3. etc.

UEB Technical Practice Test

1.

$$\frac{1}{2}, \frac{1}{2} \text{ and } 1/2$$

2.

$$7 - \left(\frac{2}{3} + 4\frac{1}{2} \right)$$

3.

$$2 \text{ m} \ll 2 \text{ km}$$

4.

$$x : y = 5 : 7$$

5.

$$\frac{2.5}{3} = \frac{\quad}{30\,000}$$

6.

$$\text{If } |x| \leq 3 \text{ then } -3 \leq x \leq 3$$

7.

$$F \propto \frac{1}{d^2}$$

8.

$$(f^{-1} \circ f)(x) = x$$

9.

$$\text{If } XY \perp YZ \text{ then } \angle Y = 90^\circ$$

10.

$$16^{\frac{1}{4}} = \sqrt[4]{16} = 2$$

11.

$$\frac{\frac{x}{2} + \frac{3x}{8}}{\frac{x}{4}}$$

12.

$$x^3y \neq x^{3y}$$

13.

$${}_7C_4 = \binom{7}{4}$$

14.

$$\int_2^5 x^3 dx$$

15.

$$1 \div 7 = 0.\dot{1}4285\dot{7}$$

16.

$$5^{-3} = \frac{1}{5^3}$$

17.

$$\lim_{x \rightarrow 0} \frac{\sin x}{x}$$

18.

$$\sin 2\theta = 2 \sin \theta \cos \theta$$

19.

$$\tan X = \frac{\textit{opposite}}{\textit{adjacent}}$$

20.

$$\overrightarrow{AB} = (-4, 5)$$

21.

$$\begin{pmatrix} 7 & -4 & 9 \\ 12 & 1 & -6 \end{pmatrix}$$

22.

$$\begin{bmatrix} x & y & z \end{bmatrix} \begin{bmatrix} 2a \\ b \\ -c \end{bmatrix}$$

23.

$$\{m \mid m \in n \text{ and } m \notin \mathbb{N}\}$$

24.

$$\alpha \cdot (\beta \cdot \delta) = (\alpha \cdot \beta) \cdot \delta$$

25.

$$A \cap A' = \emptyset$$

26.

$$\{2c, d\} \subset \{a, b, 2c, d\}$$

27.

$$\sum_{i=6}^7 x_i = x_6 + x_7$$

28.

$$S_{\bar{x}} \rightarrow \frac{\sigma}{\sqrt{n}} \text{ as } n \rightarrow \infty$$

29.

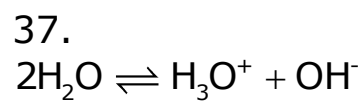
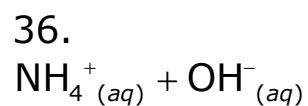
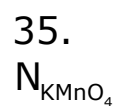
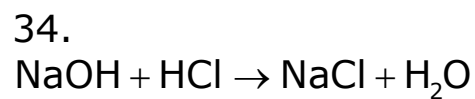
$$7\sqrt{x} + \frac{x^2 - 8}{x}$$

30.
<http://vision/2018.child.ie>

31.
$$\log_2 x = \frac{\log x}{\log 2}$$

32.
$$A \rightarrow B \vdash \neg B \rightarrow \neg A$$

33.
$$\blacksquare + \blacksquare = 10$$



38.
$$y = \begin{cases} x, & \text{if } x \leq 0 \\ 0, & \text{if } x > 0 \end{cases}$$

39.
$$(\exists x)(\exists y)[x + y = 85]$$

40.
$$\frac{10!}{8!} = 10 \times 9$$

41.

Median $\tilde{x}$ is $\mu_{\frac{1}{2}}$

42.

$$\frac{192}{80} = \frac{\Delta}{40} = \frac{\bigcirc}{\square}$$

43.

$$\sqrt[3]{\sqrt{729}}$$

44.

Distance is $\sqrt{(\Delta x)^2 + (\Delta y)^2}$

45.

$$\cos(A+B) = \cos A \cos B - \sin A \sin B$$

46.

$$a_n = a_{n-1} + 3a_{n-2}$$

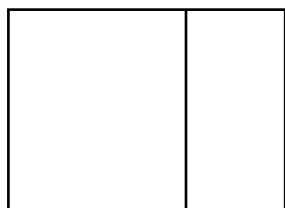
47.

```
void rev(string s) {  
    if (!s.empty()) {  
        rev(s[1..s.length]);  
    }  
    print(s[0]);  
}
```

48.

$$\begin{array}{r} 345 \\ 23 \\ +1987 \\ \hline 2855 \end{array}$$

49.



50.

