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Score: 20/29 (68.97%)

Code: 2352

1. What is the square root of 0.017?

- A) 0.001 (Incorrect) B) **0.13**
C) 0.00001 D) 0.000001

2. What is the definition of ratio?

- A) **Relation of two quantities of the same kind** B) Relation of two quantities of the different kind (Incorrect)
C) Equality between two ratios D) Inequality between two ratios

3. What is the ratio of 4 kg to 800 grams?

- A) **05:01 (Correct)** B) 04:08
C) 08:04 D) 02:04

4. What percentage of 80 is 20?

- A) 0.8 B) 0.4
C) **0.25** D) 0.2 (Incorrect)

5. How much is 8% of 40 kg?

- A) 2.2 kg B) **3.2 kg (Correct)**
C) 4.2 kg D) 5.2 kg

6. Convert 52% into fraction?

- A) (9/25) B) (11/25)
C) **(13/25) (Correct)** D) (17/25)

7. Convert 0.456 decimal fraction into percentage?

- A) 0.456 B) 0.0456
C) **45.6 (Correct)** D) 0.000456

8. What is the x value for $x^2 + 62 = 126$?

- A) 4 (Incorrect) B) 6
C) **8** D) 10

9. What is the square root of decimal number 550.37?

- A) 21.26 B) 22.26
C) 22.46 D) **23.46 (Correct)**

10. What is the length L2, if total length (L) is 2.75 metre and L1:L2 = 2:3?

- A) 1.1 metre B) 1.25 metre (Incorrect)
C) **1.65 metre** D) 1.75 metre

11. How many days a mechanic takes to assemble 64 machines if he assembles 8 machines in 3 days?

- A) 20 days B) 22 days
C) **24 days (Correct)** D) 26 days

12. What will be the rpm of smaller gear if a 180 mm dia meshes with 60 mm dia gear and the bigger gear makes 60 rpm?

- A) 120 rpm B) 140 rpm
C) 160 rpm D) **180 rpm (Correct)**

13. What is the percentage of copper if the casting weight of copper 42.3 kg and tin weight 2.7 kg?

- A) Cu 92% (Incorrect) B) **Cu 94%**
C) Cu 96% D) Cu 98%

14. A motor cycle tyre is sold for Rs 300/- what is the purchase price if 25% profit is added to it.

- A) Rs 200 B) Rs 220
C) **Rs 240 (Correct)** D) Rs 260

15. What is the decimal fraction of conversion of 18.5%?

- A) **0.185 (Correct)** B) 0.175
C) 0.165 D) 0.195

16. What are the two classifications of system of units?

- A) British and Metric B) Gravitational and non-gravitational
C) **Fundamental and derived (Correct)** D) Metric and International

17. What are fundamental units?

- A) Length, Mass, Volume B) **Length, Mass, Time (Correct)**
C) Length, Mass, Area D) Length, Pressure, Volume

18. What denotes letter M in MKS system?

- A) Mile B) **Meter (Correct)**
C) Millimeter D) Micron

19. How many millimetres are there in 1 inch?

- A) 2.54 mm B) **25.4 mm (Correct)**
C) 24.5 mm D) 2.45 mm

20. What is the LCM of 12, 18, 6, 36?

- A) 12
B) 18
C) 36 (Correct)
D) 42

21. What is the HCF of 18, 42, 24?

- A) 2
B) **6 (Correct)**
C) 18
D) 24

22. What is the improper fraction for the given mixed fraction $7 \frac{3}{7}$?

- A) **(52/7)**
B) "7/52"
C) "28/7" (Incorrect)
D) "7/28"

23. Convert decimal 0.000659 to fraction?

- A) (659/1000)
B) (659/10000)
C) (659/100000) (Incorrect)
D) (659/1000000)

24. Simplify: $(\frac{3}{4}) + (\frac{2}{5}) - (\frac{5}{20})$

- A) (3/10)
B) **(9/10) (Correct)**
C) (12/10)
D) (13/10)

25. Divide $(\frac{20}{31}) / (\frac{15}{62})$

- A) $2\frac{4}{3}$
B) $2\frac{1}{3}$
C) $2\frac{3}{2}$
D) $2\frac{2}{3}$ (Correct)

26. What is the product of 0.003×0.5 ?

- A) 0.00015
B) **0.0015 (Correct)**
C) 0.015
D) 0.15

27. Simplify: $(17.49 \times 5.2) / (6.5)$

- A) 13.69
B) 13.79 (Incorrect)
C) 13.89
D) 13.99

28. What is the length of each part if a copper wire of 225 metre long is cut into 900 equal parts?

- A) 0.23 metre
B) **0.25 metre (Correct)**
C) 0.28 metre
D) 0.29 metre

29. What is the square root of 529?

- A) 12
B) **23 (Correct)**
C) 33
D) 43