

Student Name: _____	Roll No: _____
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1. How many millimetres are there in 1 inch?

- A) 2.54 mm B) 25.4 mm
C) 24.5 mm D) 2.45 mm

2. What percentage of 80 is 20?

- A) 0.25 B) 0.2
C) 0.4 D) 0.8

3. How much is 8% of 40 kg?

- A) 2.2 kg B) 3.2 kg
C) 5.2 kg D) 4.2 kg

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

- A) 21.26 B) 23.46
C) 22.26 D) 22.46

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

- A) Rs 220 B) Rs 200
C) Rs 240 D) Rs 260

6. 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) 180 rpm
C) 160 rpm D) 140 rpm

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

- A) $(\frac{9}{10})$ B) $(\frac{3}{10})$
C) $(\frac{12}{10})$ D) $(\frac{13}{10})$

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

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

9. What is the product of 0.003 x 0.5?

- A) 0.0015 B) 0.015
C) 0.15 D) 0.00015

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

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

11. What is the definition of ratio?

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

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

- A) 1.65 metre B) 1.75 metre
C) 1.1 metre D) 1.25 metre

13. Convert 0.456 decimal fraction into percentage?

- A) 0.456 B) 0.0456
C) 0.000456 D) 45.6

14. What is the square root of 0.017?

- A) 0.00001 B) 0.001
C) 0.000001 D) 0.13

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

- A) 8 B) 6
C) 10 D) 4

16. Convert decimal 0.000659 to fraction?

- A) $(\frac{659}{1000000})$ B) $(\frac{659}{1000})$
C) $(\frac{659}{10000})$ D) $(\frac{659}{100000})$

17. What is the square root of 529?

- A) 23 B) 33
C) 12 D) 43

18. What denotes letter M in MKS system?

- A) Micron B) Meter
C) Mile D) Millimeter

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

- A) $\frac{28}{7}$
- B) $\frac{7}{28}$
- C) $\frac{52}{7}$
- D) $\frac{7}{52}$

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

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

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

- A) 0.195
- B) 0.175
- C) 0.165
- D) 0.185

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

- A) 0.29 metre
- B) 0.28 metre
- C) 0.23 metre
- D) 0.25 metre

23. Convert 52% into fraction?

- A) $\frac{17}{25}$
- B) $\frac{9}{25}$
- C) $\frac{13}{25}$
- D) $\frac{11}{25}$

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

- A) 42
- B) 18

C) 36

D) 12

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

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

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

- A) 24 days
- B) 22 days
- C) 26 days
- D) 20 days

27. What are fundamental units?

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

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

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

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

- A) 18
- B) 24
- C) 2
- D) 6