Special Exercise- 2

Class- VI   Subject: Mathematics
Full Marks: 50   Time: 1 Hour 15 Minutes

MCQ Questions

1. Which one is improper fraction?

   a) $8\frac{1}{2}\%$ b) 35%   c) $\frac{500}{7}\%$ d) 135%

2. Convert $41\frac{3}{4}\%$ into common fraction.

   a) $\frac{16}{40}$ b) $\frac{3}{16}$ c) $\frac{3}{400}$ d) $\frac{167}{400}$

3. Which one is mixed fraction?

   a) $\frac{7}{5}$ b) $\frac{5}{7}$ c) $\frac{4}{3}$ d) $1\frac{2}{3}$

4. Which one is the fractions of equal denominator for $\frac{11}{16}$ and $\frac{1}{24}$?

   a) $\frac{30}{48},\frac{2}{48}$ b) $\frac{28}{48},\frac{2}{48}$ c) $\frac{33}{48},\frac{2}{48}$ d) $\frac{1}{48},\frac{2}{48}$

5. Which one is correct if we arrange $\frac{3}{4},\frac{6}{7},\frac{7}{8}$ and $\frac{5}{12}$ in descending order?

   a) $\frac{6}{7}<\frac{5}{12}<\frac{3}{4}<\frac{7}{8}$ b) $\frac{3}{4}<\frac{6}{7}<\frac{5}{12}<\frac{7}{8}$ c) $\frac{5}{12}<\frac{3}{4}<\frac{6}{7}<\frac{7}{8}$ d) $\frac{7}{8}>\frac{6}{7}>\frac{3}{4}>\frac{5}{12}$

#Answer all of the following questions (6-8) using the fractions $\frac{3}{10},\frac{3}{4},\frac{3}{7}$

6. What types of fractions are these given fractions?

   a) of equal   b) of equal   c) Mixed fractions   d) Equivalent
   numerator   denominator   fractions

7. Which one is the ascending order of the fraction's denominators?

   a) 3<3<3   b) 4<7<10   c) 10>7>4   d) 10<7<4

8. If you arrange in ascending order then which one is correct?

   a) $\frac{3}{10}<\frac{3}{4}<\frac{3}{7}$ b) $\frac{3}{10}<\frac{3}{7}<\frac{3}{4}$ c) $\frac{3}{7}<\frac{3}{4}<\frac{3}{10}$ d) $\frac{3}{4}<\frac{3}{10}<\frac{3}{7}$

9. $\frac{3}{4}$ of $\frac{8}{9}\times 1\frac{4}{5}$ =?

   a) $\frac{3}{5}$ b) $\frac{6}{5}$ c) $\frac{8}{5}$ d) $\frac{12}{5}$

10. $5\div \frac{15}{16}$ =?

   a) $\frac{3}{16}$ b) $\frac{15}{80}$ c) $\frac{16}{3}$ d) $\frac{50}{15}$

11. What is the total value of Mr. Jamal's property if $\frac{1}{8}$ portion of the property worth for Tk. 60,000?

   a) 7500   b) 484000   c) 3240   d) 354000

12. Which one is the L.C.M. of $\frac{6}{7}$ and $\frac{3}{13}$?

a) 5   b) 6   c) 7   d) 13

13. What is the H.C.F. of $2\frac{1}{2}$ and $3\frac{1}{3}$?

a) $\frac{5}{6}$ b) $\frac{5}{2}$ c) $\frac{10}{3}$ d) 10

14. How many prime numbers are there between 25 to 40?

a) 3   b) 4   c) 5   d) 6

15. How many digits are used in the time of numeration?

a) 8   b) 9   c) 10   d) 11

16. Among natural number of one digit –

i. There are 4 prime numbers

ii. There are 4 composite numbers

iii. There are 5 odd numbers

a) i, ii   b) i, iii   c) ii, iii   d) i, ii, iii

17. If you subtract the product of b and x from the product of a and c, then which one of the following will be correct?

a) ac+bx   b) bc+ax   c) ac-bx   d) bx-ac

18. What is the value of $a^7 \times a^8$?

a) a^{56} b) a^{15} c) 15   d) 56

19. What is the exponent of x for the product of $x^5 \times x^4$?

a) x^{20} b) x^9 c) 9   d) 20

20. Which one is the two third of the difference of a and b?

a) $\frac{3}{2}(a-b)$ b) $\frac{2}{3}(a-b)$ c) $\frac{1}{3}(a-b)$ d) $3(a-b)$

21. If x denotes price of exercise books and y denotes price of pen, what would be the total cost if you buy 5 exercise books and 7 pens?

a) 5x+7y   b) 7x+5y   c) x+y   d) xy (7+5)

22. For solid body-

i. it has length, width and depth

ii. has definite shape

iii. it has one ending point

a) i, ii   b) i, iii   c) ii, iii   d) i, ii, iii

23. What is the vertically opposite angle of 50°?

a) 20° b) 40° c) 50° d) 130°

24. Present time is called which of the following?

a) Modern era   b) Ancient era   c) Era of information technology   d) Primitive era

25. What is called the numbers that express the information of statistics?

a) Mean   b) Median   c) Mode   d) Data

26. What is the median of 8,9,10,12,14,16 and 18?

a) 12   b) 13   c) 14   d) 16

27. What is the mean of 16,9,0,8,0 and 9?

a) 6   b) 7   c) 8   d) 10.5

28. What is obtained when sum of data is divided by the number of data?

a) Mode   b) Median   c) Average interval   d) Mean

29. Which one of the following is the median if the number of data is even?

a) Average of the middle two terms   b) Sum of the middle two terms   c) Average of the last two terms   d) Sum of the first two terms

30. How many ending points are there of a line segment?

a) One   b) Two   c) Three   d) Infinite

Creative Questions

1) $5\frac{4}{25}$ metre, $7\frac{1}{4}$ metre and $4\frac{3}{10}$ metre of a bamboo of 25-metre-long are coloured with black, red and yellow color respectively.

a) $\frac{7}{8}$ of $\frac{4}{5} \div \frac{3}{4}$ of $\frac{9}{10}$ = what?   2

b) How many metre of the bamboo is not coloured?   4

c) Which colour is used most to colour the bamboo?   4

2) The ending point of the ray OC meet the point O of the line AB.

a) Draw a figure according to the stem.   2

b) Prove that $\angle AOC + \angle BOC = 180^0$ 4

c) If $\angle AOC = 2x^0$ and $\angle BOC = x^0$, then find the value of those two angles.   4