Practice Set – 8

Q.1 Which of the following number is a divisor of $(49^{15}-1)$?
a) 46
b) 14
c) 8
d) 50

Q.2 If the 4-digit number x67y is exactly divisible by 9, then the least value of (x+y) is?
a) 9
b) 0
c) 5
d) 3

Q.3 Find the largest number of 3-digit which is divisible by 4 and 7?
a) 960
b) 980
c) 990
d) 970

Q.4 The largest 5-digit number that is exactly divisible by 88 is?
a) 99968
b) 99689
c) 68999
d) 66698

Q.5 Choose the option in which the numbers are in correct ascending order?
a) $\frac{4}{5}, \frac{2}{3}, \frac{1}{11}, \frac{2}{9}$
b) $\frac{1}{11}, \frac{2}{9}, \frac{2}{3}, \frac{4}{5}$
c) $\frac{2}{9}, \frac{1}{11}, \frac{4}{5}, \frac{2}{3}$
d) $\frac{2}{3}, \frac{4}{5}, \frac{1}{11}, \frac{2}{9}$

Q.6 If the number 123456789 is divided by 9, then the remainder is?
a) 0
b) 1
c) 2
d) 3

Q.7 If x = $\sqrt{64} + \sqrt{121} - \sqrt{169}$, then find the value of x^2?
a) 16
b) 25

c) 36

d) 49

Q.8 The number 2918245 is divisible by which of the following number?

a) 3

b) 11

c) 12

d) 9

Q.9 Which is the greatest 4-digit number which on being divided by 6,7 and 8 leaves 4,5 and 6 as remainders respectively?

a) 9921

b) 9920

c) 9912

d) 9910

Q.10 How many composite numbers are there from 53 to 97?

a) 36

b) 37

c) 35

d) 38

Q.11 The value of $\frac{428 \times 428 \times 428 + 348 \times 348 \times 348}{428 \times 428 - 428 \times 348 + 348 \times 348}$ is?

a) 776

b) 62080

c) 80

d) 40

Q.12 Simplify the following expression: $25^3 - 75^3 + 50^3$

a) -281250

b) 281350

c) 271250

d) -281450

Q.13 Find the value of given expression: [76-{90÷5×(24-36÷3)÷3}]

a) 71.5

b) 75.5

c) 4

d) 77.5

Q.14 Find the value of following expression: $\frac{5-35 \div 5 \times 15 + 5}{12 - 2}$

a) -9.5
b) -13.5
c) -2.5
d) 11.5

Q.15 Simplify the following expression: 980÷35×16+4-2×2
a) $\frac{15}{2}$
b) 448
c) $\frac{7}{4}$
d) 556

Q.16 Which is the appropriate word in the place of question(?) mark?
Library : Books : : Museum : ?
a) Building
b) Artefacts
c) People
d) Gallery

Q.17 Which is the appropriate word in the place of question(?) mark?
Panda : Bamboo : : Koala : ?
a) Bark
b) Grass
c) Eucalyptus
d) Fish

Q.18 Which one of the following is appropriate ratio?
Acquired : Received
a) Bitter : Sweet
b) Collected : Distributed
c) Arrival : Departure
d) Miniature : Tiny

Q.19 Which one of the following is appropriate ratio?
Hibiscus : Flower
a) Pumpkin : Fruit
b) Bins : Protein
c) Leaf : Green
d) Tree : Trunk

Q.20 Which is the appropriate number in the place of question(?) mark?
19 : 324 : : 25 : 576 : : 9 : ?
a) 16

b) 64

c) 88

d) 72

Q.21 Which is the appropriate number in the place of question(?) mark?

68 : 321 : : 525 : ?

a) 792

b) 852

c) 681

d) 778

Q.22 Which is the appropriate replacement in the place of question(?) mark?

ROSE : IVQS : : SUIT : XLWT : : TIME : ?

a) IPKU

b) IPKV

c) JPKU

d) JPKV

Q.23 Which is the appropriate replacement in the place of question(?) mark?

BACTERIA : EXFWBUFX : : WOUNDS : ?

a) ZLSQFW

b) ZLRQGV

c) YLRQRV

d) ZRXQGV

Q.24 Which is the appropriate replacement in the place of question(?) mark?

RGB : TGF : : QPG : ?

a) RMK

b) TNJ

c) SMK

d) SOJ

Q.25 Two numbers are in the ratio of 5:7. If 6 be added to each, the ratio becomes 3:4. Find the numbers.

a) 30,42

b) 55,88

c) 10,16

d) 25,40

Q.26 Ratio of monthly incomes of A and B is 4:5 respectively. Ratio of monthly savings of A and B is 14:19 respectively. If the monthly expenditure of A and B is Rs. 1200 each, then what is the difference between the monthly incomes of A and B?

a) Rs. 2000
b) Rs. 5000
c) Rs. 4000
d) Rs. 1000

Q.27 If 14 : 30 : : 7 : x , then what is the value of x?
a) 15
b) 21
c) 9
d) 12

Q.28 If a : b = 4 : 5 and b : c = 3 : 10 , then a : c is ?
a) 4:10
b) 5:3
c) 2:6
d) 6:25

Q.29 Find the fourth proportional to the numbers 24, 192 and 27.
a) 216
b) 108
c) 162
d) 170.67

Q.30 What will be the day of the week on 1st January 2033?
a) Saturday
b) Monday
c) Sunday
d) Tuesday

Q.31 Today is Saturday. After 555 days it will be?
a) Tuesday
b) Thursday
c) Wednesday
d) Monday

Q.32 Which of the following calender will be the same as the calender for the year 2009?
a) 2025
b) 2015
c) 2036
d) 2042

Q.33 What was the day of the week on 26th November 1994?

a) Friday
b) Wednesday
c) Saturday
d) Thursday

Q.34 Which of the following calender will be the same as the calender for the year 2003?
a) 2014
b) 2013
c) 2012
d) 2011

Q.35 If 35 men finish a work in 6 days, then in how many days can 7 men do half of the same work?
a) 17
b) 30
c) 15
d) 60

Q.36 A can do 1/4 part of a work in 9 days. B can do 2/3 part of the same work in 28 days. Working together, in how many days can A and B complete the whole work?
a) 261/15 days
b) 198/17 days
c) 252/13 days
d) 262/11 days

Q.37 Working for 10 hours per day 6 men can build a wall in a certain number of days. By working for how many hours per day can 12 men build the wall in the same days?
a) 7 hrs. 30 mins.
b) 5 hrs.
c) 20 hrs.
d) 10 hrs.

Q.38 A can complete 25% of a work in 15 days. He works for 15 days and then B alone finishes the remaining work in 30 days. In how many days will A and B working together to finish 50% of the same job?
a) 24
b) 20
c) 12
d) 25

Q.39 20 men can finish a work in 30 days. They started working, but 4 men left the work after 10 days. In how many days would the work be completed?

a) 35
b) 28
c) 25
d) 30

Q.40 In a certain code language, 'GOLF' is coded as '44' and 'BALL' is coded as '31'. How will 'PLAY' be coded in that language?
a) 60
b) 58
c) 62
d) 56

Q.41 In a certain code language, 'feel at home' is coded as '424', 'check the laundry' is coded as '537' and 'open the door' is coded as '434. How will 'the kite is flying' be coded in that language?
a) 2315
b) 3251
c) 4362
d) 3426

Q.42 In a certain code language, 'STAR' is coded as '92678' and 'FLAG' is coded as '20261521'. How will 'LOGO' be coded in that language?
a) 12201215
b) 12221214
c) 15122012
d) 12201325

Q.43 In a certain code language, 'BELL' is coded as '111141' and 'HEAR' is coded as '172647'. How will 'MIKE' be coded in that language?
a) 410813
b) 410811
c) 410812
d) 410612

Q.44 In a certain code language, 'ENGINE' is written as 'ENIGNE' and 'TRAIN' is written as 'NIART'. How will 'LEVEL' be written in that language?
a) LEELV
b) LEVEL
c) LEEVL
d) LELEV

Q.45 In a certain code language, 'jig fig vic' means 'I Love India' and 're dig fig lic vic' means 'I Ilike culture of India'. Which of the following is the code for 'Love'?
a) fig
b) lic
c) jig
d) vic

Q.46 At what time between 7 and 8 o'clock will the hands of a clock be in the same straight line but not together?
a) 5 mins. Past 7
b) $5\frac{3}{11}$ mins. Past 7
c) $5\frac{4}{11}$ mins. Past 7
d) $5\frac{5}{11}$ mins. Past 7

Q.47 At what angle the hands of a clock are inclined at 15 minutes past 5?
a) $55\frac{1}{2}$ degree
b) $\frac{59}{2}$ degree
c) $67\frac{1}{2}$ degree
d) $75\frac{1}{2}$ degree

Q.48 How many times do the hands of a clock coincides in a day?
a) 18
b) 20
c) 22
d) 44

Q.49 At what time between 2 and 3 o'clock will the hands of a clock be together?
a) $8\frac{1}{2}$ mins. Past 2
b) $9\frac{1}{4}$ mins. Past 2
c) $10\frac{1}{2}$ mins. Past 2
d) $10\frac{10}{11}$ mins. Past 2

Q.50 A clock is set right at 5 a.m. The clock loses 16 minutes in 24 hours. What will be the true time when the clock indicates 10 p.m. on 4th day?
a) 12 p.m.
b) 10 p.m.
c) 9 p.m.
d) 11 p.m.