SSC (Staff Selection Commission) Data Entry Operator exam Paper

Arithmetic (Numerical Aptitude)

Directions-(Q. 1-5) What should come in place of the questi0n—mark (?) in the following questions?

1. $[(58)^2 \times (48)^2] \div ? = 2152\text{-}96$

(A) 60 (B) 2500
(C) 50 (D) 3600
(E) None of those

Answer.D

2. $7432 \div 92\text{-}9 \times 18\text{-}5 = ?$

(A) 1450 (B) 1600
(C) 1480 (D) 1560
(E) None of these

Answer.C

3. $99 \times 21 - {}^3?? = 1968$

(A) 1367631
(B) 111
(C) 1366731
(D) 1367
(E) None of these

Answer.E

4. $9634 \times 3/8 \div ? = 28\text{-}902$

(A) 115 (B) 95
(C) 110 (D) 120
(E) None of these

Answer.A

5. $19\text{-}99 \times 9\text{-}9 + 99\text{-}9 = ?$

(A) 129-79 (B) 297-801
(C) 1009 . (D) 296-91
(E) None of these

Answer.B

Directions—(Q. 6-10) What should come in place of the question mark (?) in the following number series?

6. 354, 180, 64, 21, 10.2, ?

(A) 5.6 (B) 8.7
(C) 3.8 (D) 1.7
(E) None of these

Answer.B

7. 4.5, 18, 2.25, ?, 1.6875, 33.75

(A) 27 (B) 25.5 .
(C) 36 (D) 40. l
(E) None of these

Answer.A

8. 59.76, 58.66, 56.46, 52.06, 7, 25.66

(A) 48.08 (B) 46.53
(C) 43.46 (D) 43.26
(E) None of these

Answer.D

9. 36, 157, 301, 470, ?, 891 -

(A) 646 (B) 695 `
(C) 639 (D) 669
(E) None of these

Answer.E

10. 14, 70, 350, ?, 8750, 43750

(A) 1570 (B) 875
(C) 1750 _ (D) 785
(E) None of these

Answer.C

ll. The ratio of the number of students studying in Schools A, B and C is 6 : 8 : 7 respectively. If the number of students studying in each of the schools is increased by 20%, 15% and 20% respectively, what will be the new ratio of the number of students in Schools A, B and C.

(A) 18 : 23 : 21
(B) 12: 18 : 17
(C) 18 :21 : l7
(D) Cannot be determined
(E) None of these

Answer.A

2. On a test consisting of 75 questions carrying one mark each Samir answered 75% of the first 40 questions correctly. What approximate per cent of the other 35 questions does he need to answer correctly to score 80% on the entire test?

(A) 90 (B) 75
(C) 86 (D) 60
(E) 58

Answer.C

3. Out of these numbers the sum of the first and the second number is 73 and the sum of second and the third number is 77. The sum of the third and thrice the first number is 104. What is the third number?

(A) 25
(B) 39

(C) 48

(D) Cannot be determined

(E) None of these _

Answer.E

14. 50 people consume 350 kgs. of rice in 30 days. In how many days will 35 people consume 50 kgs. of rice

(A) 2 days (B) 3 days
(C) 5 days (D) 7 days
(E) None of these

Answer.E

15. Krishna has some hens and some goats. If the total number of animal heads are 81 and total number of animal legs are 234, how many goats does' Krishna have?

(A) 45

(B) 24

(C) 36

(D) Cannot be determined

(E) None of these

Answer.C

Directions—(Q. 16-20) Study the following data carefully and answer the questions given below-

A survey conducted on 1800 villages shows that 25% of the total villages have only adequate water supply. 15% of the total number of villages have proper supply of electricity only. 7% of the total number of villages have only proper education facilities. 12% of the total number of villages have telecommunication services only. 16% of the total number of villages have proper health care services only. 6% of the total number of villages have adequate water as well as supply of electricity. 8% of the total number of villages have adequate supply of water, supply of electricity as well as health care services. 5% of the total number of villages have proper supply of electricity, telecommunication services as well as health care services and 6% of the total number of villages have all the facilities.

16, How many villages in all have adequate water supply ?

(A) 702

(B) 450

(C) 594

(D) 810

(E) None of these

Answer.D

17. How many villages in all have adequate supply of water as well as electricity ?

(A) 360 (B) 108
(C) 720 (D) 972
(E) None of these

Answer.A

18. How many villages in all do not have proper supply of electricity ?

(A) 720 (B) 850

(C) 920 (D) 1080
(E) None of these

Answer.D

19. How many villages have only proper education facilities ?

(A) 108 (B) 126
(C) 234 (D) 216
(E) None of these

Answer.B

20. How many villages have all the facilities ?

(A) 90 (B) 126
(C) 144 (D) 106
(E) None of these

Answer.E

Directions—(Q. 21-25) Study the following table carefully and answer the questions given below. l Quantity of Rice produced by various states over the years (Quantity in Tonnes) Years

States	2002	2003	2004	2005	2006	2007
A	1500	1480	1620	1700	1540	1650
B	1250	1190	1400	1450	1320	1380
C	1160	1190	1310	1300	1340	1360
D	1520	1500	1480	1590	1630	1580
E	1440	1350	1430	1280	1380	1400
F	1600	1620	1510	1610	1580	1590

21. In which state has the production of rice increased over the years continuant

(A) A (B) B
(C) D (D) E
(E) None of these

Answer.E

22. In which year was the production of rice the highest in all the states together

(A) 2007 (B) 2002
(C) 2005 (D) 2006
(E) None of these

Answer.A

23. Which state produced the lowest quantity of rice over the years?

(A) E (B) D
(C) C (D) A
(E) None of these

Answer.C

24. What is the respective ratio of the average quantity of rice produced by State D to the average quantity of rice produced by State F over the years ?

(A) 69 : 79 (B) 310:317
(C) 138: 155 (D) 276: 317

(E) None of these

Answer.B

25. Rice produced by State C in the year 2005 is approximately what per cent of the rice produced by State A in the same year '?

(A) 82 (B) 72
(C) 88 (D) 76
(E) 69

Answer.D

Directions- Study the following table carefully and answer the questions given below.
Number of Literates in various cities over the years

M-Males, F-Females
Years 2001 2002 2004

Cities M F M F M F M F M F
U 15000 25000 18550 20000 18590 25000 25000 25500 28000 28800
V 12500 9200 14680 10520 16000 11000 16850 13680 16920 14360
W 18660 17380 18950 18000 18980 19000 19500 19250 19580 19600
X 14200 14350 14820 14500 15250 15000 15390 15250 16000 16200
Y 9700 8320 9990 8540 9870 8820 10200 10000 10520 10300

31. What is the total number of male literates in City W over the years

(A) 97650 (B) 95670
(C) 99280 (D) 96570
(E) None of these

Answer.B

32. What is the total number of literates across the cities in the year 2005

(A) 180280 (B) 182000
(C) 18805.0 (D) 180500
(E) None of these

Answer.A

33. What is the difference between the total number of female literates across the cities in the year 2002 and the year 2004 ?

(A) 11850 (B) 12000
(C) 11500 (D) 12800
(E) None of these

Answer.E

34. What is the respective ratio of literates of City X in the year 2001 to the literates of the same city in the year 2003 '?

(A) 581 : 624
(B) 64 : 75
(C) 571 : 605
(D) 84: 131
(E) None of these

Answer.C

35. What is the average number of female literates across the cities in the year 2005 ?

(A) 18725 (B) 15872 •
(C) 17582 (D) 17852
(E) None of these

Answer.D

Directions- Study the following Pie—Graph carefully and answer the questions given below.

A survey conducted on 5800 villages staying in various villages and having various favourite fruits

Favourite Fruits
Guava 14%
Apple 12%
Grapes 11%
Mango 28%
Banana 20%
Custard apple 15%

People staying in various villages

A 22%
B 21%
C 32%
D 25%

36. Mango is the favorite fruit of 50% of the people from Village C. People having their favourite fruit as mango from Villages C form approximately what per cent of the people having their favourite fruit as mango from all the villages together ?

(A) 48 (B) 53
(C) 61 (D) 57
(E) 45

Answer.D

37. 20% of the people from Village D have banana is their favourite fruit and 12% of the people from the same village have guava as their favourite fruit. How many people from that village like other fruits

(A) 764 B) 896
(C) 874 (D) 96%
(E) None of these

Answer.E

38. How many people in all have custard apple as their favourite fruit

(A) 850 (B) 864
(C) 870 (D) 812
(E) None of these

Answer.C

39. 50% of the people from Village B have banana as their favourite fruit. How many A people from other villages have the same favourite fruit

(A) 1160 (B) 551
(C) 1020 (D) 609
(E) None of these

Answer.B

40. What is the total number of people having their favourite fruit as apple and grapes together

(A) 1334 (B) 1286
(C) 1300 (D) 1420
(E) None of these

Answer.A

41. In how many different ways can the letters of the word 'GAMBLE' be arranged

(A) 720 (B) 840
(C) 360 (D) 420
(E) None of these

Answer.A

42. If the numerator of a fraction is increased by 200% and the denominator of the fraction is increased by 150%, the resultant fraction is $6 What is the original fraction

(A) 5/12 (B) 4/7840
(C) 3/4 (D) 7/11
(E) None of these

Answer.C

43. Pratibha covers a distance of 24 kms at the speed of 8 kms/hr, and a distance of 18 kms at the speed of 9 kms/hr. Further she covers a distance of 12 kms at the speed of 3 kms/hr. What is her average speed in covering the whole distance

(A) 8 kms/hr. (B) 5.5 kms/hr.
(C) 3 kms/hr. (D) 6kms/hr.
(E) None of these

Answer.D

44. The mean of the marks obtained by 100 E students is 60. If the marks obtained by one of the students was incorrectly casemated as 75, whereas the actual marks obtained by him were 65, what is the correct mean of the marks obtained by the students

(A) 59
(B) 58-50
(C) 50
(D) Cannot be determined '
(E) None of these

Answer.E

45. The difference between a two digit number and the number obtained by interchanging the two digits of the numbers is 36. What is the difference between the two digits of the number

(A) 6
(B) 4
(C) 3
(D) Cannot be determined

(E) None of these

Answer.B

Directions•(Q What approximate value should come in place of the question mark (?) in the following questions ? (You are not expected to calculate the exact value).

46. 388 + 0.8 + 0.7 = ?

(A) 681 (B) 654
(C) 693 (D) 670
(E) 700

Answer.C

47. ?729 x ?338= ?

(A) 470 (B) 482
(C) 521 (D) 530
(E) 496

Answer.E

48. 1875 ÷ 35 x 3242 ÷ 48 = ?
(A) 3525 (B) 3618
(C) 3641 (D) 3591
(E) 3636

Answer.B

49. $\sqrt[3]{?41132}$ =?

(A) 35 (B) 42
(C) 22 (D) 29
(E) 45

Answer.A

50. 15.28 x 12.36+ 41.17 x 21 − 34 = ?

(A) 1125 (B) 1098
(C) 1132 (D) 1032
(E) 1067

Answer.E