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Zahira College

Mid year Vacation Assignment 2014

Medium : English

Grade: 10 A+10B

Subject : Mathematics

Adm. No :

Name :

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- 1) Use your factor knowledge to simplify $0.4 \times 560 + 140 \times 0.4$
- 2) 73500000 km^2 is the size of the Indian Ocean. Write in Scientific format.
- 3) Populations of China and India as projected for the year 2050 will be 1554875000 and 1.591×10^9 respectively. What will be the difference in populations?
- 4) Expand $(x+9)^2$
- 5) Expand $(s-3)(s+9)$
- 6) A trader bought an article for Rs 500 and marked it to sell at Rs600. What is the expected profit percentage? While selling he gave a discount of 8%. Find his selling price?
- 7) A Business increased by 10%. If the new business is 2.2 million worth what was original business
- 8) Find 2.5% of 25000
- 9) Simplify $3.878/100$
- 10) Out of 58% of 1500 and 70% of 1120 which is greater
- 11) $2/5^{\text{th}}$ of a task is done by Mike and $1/3^{\text{rd}}$ of the same task is performed by John and the rest of the work has to be finished by me .What is portion is left for .me?
- 12) Three equal quantities increased by 10%, 15% and 20%. What is their ratio after the increase
- 13) What is selling price of a cupboard marked at 4800/= for which a discount of 12.5% is given
- 14) A man gives $1/2$ of a certain amount to his son and $1/3$ to his daughter and the son got 2000/= more find the amount
- 15) For a 6% discount the selling price is 9024/ what is the marked price
- 16) A person's annual income is 72000/=. 27000/= is free from tax. Next 21000/= is taxed at 10% and the balance at 20%. What is the amount he pays as taxes? If another pays 3100/= what is his annual income?
- 17) A maths paper is marked 36 out of 60. Make it out of 100.
- 18) By selling at 4% discount one gets a profit of 14%. If he sells without discount what is the profit percent
- 19) For a digital camera costing 34000/= one has to pay 20% VAT. The seller sells at 15% profit. What is the amount the buyer has to pay totally?
- 20) By paying 10 monthly installments of 456/= for an item marked for 4300/=- what percent more he pays up.
- 21) A got 40% and B got 35% and C got the balance of 2500/= find how much A and B got.
- 22) A person spends 750/= on smoking. The prices increased by 20%. And he realized and reduced his habits by 40%. Find his present expenses.

- 23) For printing 4000 copies of books Rs 120,000 was spent. They were sold for a profit of 10% to a dealer. If the dealer sells at 45/= find the profit percent nearest to the whole number
- 24) A count on seeds of Tomato for cultivation is done for 100 packets. It is shown as follows. Find the range and the median and the inter quartile range
- 25) The probability of Thassim getting late to come to School is 0.6. For how many days can we expect his coming in time for 200 days of school sessions?
- 26) Find the square root of 2209 by divisive method.
- 27) $X = \{1, 2, 3\}$ Find the number of subsets in X. -
- 28) Bearing of a place is given in the traditional form $N2.3^\circ W$. Give it in standard form.
- 29) 3:2 is the ratio of length to breadth of a rectangle. If the perimeter is 60cm find the sides.
- 30) To what percent per annum Interest is equal to 1.5% per month?
- 31) 100 packets of tomato seeds are examined and counted find the median

Seeds	No. of packets
24	0
25	5
26	4
27	15
28	33
29	1
30	0
31	0
32	7
33	1
34	0

- 32) Show the sample space for two dices rolled together and find the probability for sums greater than 10
- 33) The inner radius of a pipe is 22mm where is the outer radius 25mm. Find the area of cross section of the pipe, Take the value of pie as 3.14
- 34) Simplify $-4(3-4)+7$
- 35) The price of chicken during this Ramadan is 350/= a kilo but it was 225/- per kilo last Ramadan. What is the price increase percentage?
- 36) If instead of 12 salaries, 13 salaries will be given from December for a year for me, find the salary increase-percent if my present salary is 12,000/.
- 37) What are the possible sizes of a rectangle whose area is 72 cm squares.
- 38) Solve the inequality $4x-5 > 3$
- 39) Find the distance covered by a wheel of $d=35$ cm in rotating 50 rounds.
- 40) Find number of sides of regular polygon whose interior angle is 170
- 41) Oil from a bottle of size 750ml is poured into a container of 12cm high and 10cm square base. What happens at the end?
- 42) Population of a town increased by 5%. If the new population is 210000. What was the original population?
- 43) Solve $x/2+3=15$
- 44) If $y=3x-1/2$ find the x intercept
- 45) If the exterior angle of a regular polygon is 9 degrees find the number of sides
- 46) Find the mean of 3.8, 3.9, 3.5, 3.7
- 47) Find The inclination of the Straight line graph of $y=3X+7$ towards x axis or y axis
- 48) Radius of a circle is $6x+10$. Find the diameter
- 49) Find 2.5% of 25000
- 50) If $x > 5$ and $x < 9$ sketch the inequality on a number line.