

BCM SCHOOL BASANT AVENUE, DUGRI

CLASS -VII

SUBJECT –MATHEMATICS (041)

OCTOBER-ASSIGNMENT (2023-2024)

Chapter -3,10(Data Handling, Algebraic Expressions)

1. Find X, If mean of 994, 996, 998, x and 1000 terms is 998.

- a) 998 b) 1000 c) 1002 d) 1004

2. Which of the following term is a binomial?

- a) x^2yz b) $4p^2q+3pq-7qp^2$ c) $7mn^2+8mn-7m$ d) $7-2mn+8n$

3. The mean weight of 8 numbers is 15 kg. If each number is multiplied by 2, what will be the new mean?

- a) 15 b) 30 c) 8 d) 45

4. The expression $3x^4-4x^{\frac{3}{5}}+x^2$ is not a polynomial because the term $-4x^{\frac{3}{5}}$ contains a rational power of x.

Reason: The highest exponent in various terms of an algebraic expression in one variable is called its degree. Which of the following is true?

- a) Both Assertion and Reason are true and the reason is the correct explanation for the assertion.
- b) Both Assertion and Reason are true, but the reason is not the correct explanation for the assertion.
- c) Assertion is true and Reason is false
- d) Assertion is false and Reason is true.

Case Study Question: Cleanliness drive is a way to raise awareness on the importance of cleanliness in one's neighbourhood. Residents of a certain locality joined 'CLEANLINESS DRIVE' together to clean area. There were $6x^2+3y^2+2$ men, x^2+2y^2+5 women and $2x^2+5y^2+10$ children. To count the total number of resident's; bureaucracy take x as -2 and y as -3. Read the passage carefully and answer the following questions:

- (I) How many men are there in all?
- (II) How many residents are there in all?
- (III) What is the difference between number of children and number of women?

Subjective Question:

- 1. Find the value of t if the value of $3x^2 + 5x - 2t$ equals to 8 when $x = -1$.
- 2. The mean of 36 observations is 12. One observation 47 was misread as 74. Find the correct mean.

3. After first continuous assessment, 6 friends worked in a group to grasp the subjects learnt through practical applications and through different methods. A table of the percentage of marks obtained in two continuous assessments after the second assessment.

Friends	Sumit	Rohini	Jahir	Merry	JOSEPH	Nazeen
1 st assessments	45%	60%	55%	38%	72%	62%
2 nd assessments	65%	65%	68%	60%	80%	70%

Prepare the double bar graph with the help of above information.