



FIRST-TERM SCHOOL-BASED ASSESSMENT (SBA) 2026-27

GRADE-7

SUBJECT: MATHEMATICS

[Paper A: 15 Marks, Paper B: 35 Marks, Total: 50 Marks], Time = 2 hours

School Name: _____

Student Name : _____

Roll

Number : _____

Section : _____

OBJECTIVE PART (MCQs)

Question No.1: The product of $5x^2y$ and $3xy^2$ is:

$5x^2y$ اور $3xy^2$ کا حاصل ضرب ہے:

- a) $15x^2y^2$ (b) $15x^3y^3$ (c) $15x^3y^2$ (d) $15x^2y^3$

Question No.3: The absolute value of -45 is:

-45 کی مطلق قیمت ہے:

- (a) -45 (b) 45 (c) 44 (d) 46

Question No.2: By rounding 36.758 to 2 decimal places, we get:

36.758 کو دو اعشاری مقامات تک گول کرنے پر حاصل ہوگا:

- (a) 36.75 (b) 36.76 (c) 36.77 (d) 36.80

Question No.4: If the length of one side of a square is 40 m, then its area will be:

اگر مربع کی ایک ضلع کی لمبائی 40 میٹر ہے، تو اس کا رقبہ ہوگا:

- (a) 1200 m^2 (b) 1400 m^2 (c) 1600 m^2 (d) 1800 m^2

Question No.5: The value of x in proportion $6 : x = 9 : 18$ is:

تناسب $6 : x = 9 : 18$ میں x کی قیمت ہے۔

- (a) 10 (b) 12 (c) 14 (d) 15

Question No.7: The set of whole numbers is denoted by:

صحیح اعداد کا مجموعہ ظاہر کیا جاتا ہے:

- (a) N (b) W (c) Z (d) Q

Question No.9: Degree of polynomial $7x^3 + 2x^2 - 5x + 9$ is:

کثیر رکن $7x^3 + 2x^2 - 5x + 9$ کی درجہ (degree) ہے:

- (a) 1 (b) 2 (c) 3 (d) 4

Question No.6: The mixed fraction of $\frac{23}{5}$ is:

$\frac{23}{5}$ کا مخلوط کسر ہے:

- (a) $4\frac{2}{5}$ (b) $5\frac{3}{5}$ (c) $5\frac{2}{5}$ (d) $5\frac{3}{5}$

Question No.8: If the general term of a sequence is $a_n = 4n - 1$, then the 10th term is:

اگر کسی تسلسل کی عمومی حد $a_n = 4n - 1$ ہو، تو 10 ویں حد ہوگی:

- (a) 35 (b) 37 (c) 39 (d) 41

Question No.10: If the price of a car is Rs. 1,200,000, then the property tax at 2% is:

اگر ایک گاڑی کی قیمت 1,200,000 روپے ہے تو 2% جائیداد ٹیکس ہوگا:

- (a) Rs. 20,000 (b) Rs. 22,000
(c) Rs. 24,000 (d) Rs. 25,000

Objective Key:

Q1-b, Q2-b, Q3-b, Q4-c, Q5-b, Q6-b, Q7-b, Q8-c, Q9-c, Q10-c

SUBJECTIVE PART (CRQs)

Question-11 (a) Prov that : $\left(\frac{2}{3} \times \frac{9}{4}\right) \times \frac{6}{5} = \frac{2}{3} \times \left(\frac{9}{4} \times \frac{6}{5}\right)$

Solution:

$$\left(\frac{2 \times 9}{3 \times 4}\right) \times \frac{6}{5} = \frac{2}{3} \times \left(\frac{9 \times 6}{4 \times 5}\right)$$

$$\frac{18}{12} \times \frac{6}{5} = \frac{2}{3} \times \frac{54}{20}$$

$$\frac{18 \times 6}{12 \times 5} = \frac{2 \times 54}{3 \times 20}$$

$$\frac{108}{60} = \frac{108}{60}$$

$$\frac{9}{5} = \frac{9}{5}$$

$$\text{LHS} = \text{RHS}$$

If $U = \{1,2,3,4,5,6,7,8,9,10\}$, $A = \{1,3,5,7,9\}$ $B = \{2,3,4,5,6\}$ then verify that $(A \cup B)^c = A^c \cap B^c$

Question-11 (b) If $U = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$, $A = \{1, 3, 5, 7, 9\}$, $B = \{2, 3, 4, 5, 6\}$ then verify that $(A \cup B)^c = A^c \cap B^c$

Find $A \cup B = \{1,3,5,7,9\} \cup \{2,3,4,5,6\}$

So $A \cup B = \{1,2,3,4,5,6,7,9\}$

Find $(A \cup B)^c$

U is $= U = \{1,2,3,4,5,6,7,8,9,10\}$

Then $(A \cup B)^c = U - \{1,2,3,4,5,6,7,9\}$

$(A \cup B)^c = \{1,2,3,4,5,6,7,8,9,10\} - \{1,2,3,4,5,6,7,9\} = \{8, 10\}$

Question-12 (a) Ali earns Rs 900,000 from vegetables irrigated by canal water. Find the Ushr payable.

علی نہری پانی سے سیراب کی گئی سبزیوں سے 9,00,000 روپے کماتا ہے۔ قابل ادا عشر معلوم کریں۔
حل:

Since the crop is grown with canal water, the rate of Ushr is 5%.

Value of the produce

Ushr

$$= \frac{5}{100} \times 900,000$$
$$= 45,000$$

Payable Ushr

قابل ادا عشر = 45,000 روپے

چونکہ فصل نہر کے پانی سے اگائی گئی ہے، اس لیے عشر کی شرح: 5%

پیداوار کی مالیت = 9,00,000 روپے

$$900,000 \times 5\% = \text{عشر}$$

جواب:

Question-12 (b) Decrease 1000 in the ratio 4 : 6

Solution:

دی گئی مقدار: 1000

تناسب: 4: 6

نئی مقدار معلوم کرنے کے لیے: $\text{New Value} = 1000 \times \frac{4}{6}$

$$= 1000 \times \frac{2}{3} = \frac{2000}{3}$$

$$= 666.666....$$

Answer: = 666.67

Question-13 (a) Subtract $2x^2 - 4x + 4$ from the sum of $4x^2 + 2x + 7$ and $x^2 + 6x + 2$.

$2x^2 - 4x + 4$ کو تفریق کریں اور $4x^2 + 2x + 7$ کے حاصل جمع میں سے $x^2 + 6x + 2$

$$4x^2 + 2x + 7$$

پہلے جمع کریں

$$x^2 + 6x + 2$$

$$\hline 5x^2 + 8x + 9$$

$$5x^2 + 8x + 9$$

اب منفی کریں

$$2x^2 - 4x + 4$$

$$\begin{array}{r} 5x^2 + 8x + 9 \\ - 2x^2 - 4x + 4 \\ \hline \end{array}$$

$$12x + 5$$

$$3x^2 +$$

در منفی کریں

$$\begin{array}{r} 5x^2 + 8x + 9 \\ 2x^2 - 4x + 4 \\ - \quad + \quad - \\ \hline 12x + 5 \quad - \quad 3x^2 + \end{array}$$

Answer

Question-13 (b) If the general term of sequence is $an = 8n + 2$, find its first five terms.

Solution:

Question-13 (b) If the general term of sequence is $an = 8n + 2$, find its first five terms.

Solution:

Given: $an = 8n + 2$

We need to find the first five terms, so put $n = 1, 2, 3, 4, 5$.

1st term: $a_1 = 8(1) + 2 = 10$

2nd term: $a_2 = 8(2) + 2 = 18$

3rd term: $a_3 = 8(3) + 2 = 26$

4th term: $a_4 = 8(4) + 2 = 34$

5th term: $a_5 = 8(5) + 2 = 42$

