

Session (2025 - 27)	New	119-59,000	719269
Mathematics (Subjective)	I st A. Exam. 2026	ریاضی (انشائیہ)	BISE. BWP
نمبرات : 60	گروپ I	SSC (Part - I)	وقت : 10 : 2 گھنٹے

ہدایات: حصہ اول میں سوال نمبر 2، سوال نمبر 3 اور سوال نمبر 4 میں سے ہر سوال کے (6-6) کے جوابات تحریر کرنا لازمی ہے۔ حصہ دوم میں سے کوئی سے دو سوالات کریں۔ جبکہ حصہ سوم میں سے کوئی ایک سوال حل کریں۔ جو اپنی کاپی پر ہی سوال نمبر اور جواب تحریر کرنا چاہئے۔

Note : It is compulsory to attempt (6 - 6) parts each from Q.No.2, Q.No.3 and Q.No.4. Attempt any (02) questions from Part II. While attempt any (01) question from Part III. Write same Question No. and its Part No. as given in the Question Paper.

36 = 2x18 Make diagram where necessary. جہاں ضروری ہو شکل بنائی جائے۔ (Part - I) حصہ اول

سوال نمبر 2 (i) مختصر کیجئے : $(64)^{4/3}$

سوال نمبر 2 (ii) مختصر کیجئے : $\frac{6(3)^{n+2}}{3^{n+1} - 3^n}$

Find the value of "x" : $\log_9 x = 0.5$: "x" کی قیمت معلوم کیجئے : (iii)

Define Mantissa. : (iv)

Write One Proper Subset and One Improper Subset of the given Set : {0, 1} : (v)

Find A ∩ B if : A = {1, 2, 3}, B = {2, 3, 4, 5} : (vi)

Factorize : $64x^3 - 125$: (vii)

Define HCF. : (viii)

Find solution of Inequality : $\frac{2}{3}x - 1 < 0$: (ix)

Convert into Radian : 22.5° : (i) سوال نمبر 3

Prove that : $(\sin\theta + \cos\theta)^2 = 1 + 2\sin\theta\cos\theta$: (ii)

Find Arc Length of a Sector with r = 10 cm and Central Angle $\theta = 60^\circ$: (iii)

Define Abscissa. : (iv)

Find the distance between A(2, 3), B(5, 7). : (v)

Find the Mid Point of the line segment joining the two points A(3, 1), B(-2, -4) : (vi)

The areas of two similar triangles are 16 cm^2 and 25 cm^2 . What is the ratio of a pair of corresponding sides? : (vii)

Define Similarity of Polygon. : (viii)

Find area A_1 in two similar triangles given below : (ix)

L.K. No. 119

Define Quadratic Function. : (i) سوال نمبر 4

Sketch the graph of : $y = 3x - 1$: (ii)

Define Median of a Triangle. : (iii)

Construct a triangle ABC with measures : $m\overline{AB} = 5.5\text{ cm}$, $m\angle A = 60^\circ$, $m\overline{AC} = 4.2\text{ cm}$: (iv)

Define Frequency Distribution. : (v)

Find A.M of the given Data : 90, 81, 81, 75, 64 : (vi)

Find the Median of the given Data : 23, 15, 35, 48, 41, 5, 8, 9, 11, 51 : (vii)

The Arithmetic Mean of 45 numbers is 80. Find their Sum. : (viii)

Abdul Rahim rolls a fair dice. What is the probability of getting the number divisible by 3? : (ix)

16 = 2x8 (Part - II) حصہ دوم

(4) Simplify : $\frac{5^{n+3} - 6 \cdot 5^{n+1}}{9 \times 5^n - 4 \times 5^n}$: (الف) سوال نمبر 5

(4) Find the value of "x" : $\log x = -1.5836$: (ب)

(4) $A \cup A' = U$ اور $A = \{1, 3, 5, \dots, 19\}$ اور $U = \{1, 2, 3, \dots, 20\}$: (الف) سوال نمبر 6

If $U = \{1, 2, 3, \dots, 20\}$ and $A = \{1, 3, 5, \dots, 19\}$ then verify $A \cup A' = U$

(4) Factorize : $(x+2)(x+3)(x+4)(x+5) - 15$: (ب) سوال نمبر 7

(4) Indicate the solution region of the linear inequalities by shading. : (الف)

$$4x - 3y \leq 12$$

$$x \geq \frac{3}{2}$$

(4) : (ب)

Find the values of "x" and "y" from the given Right Angled Triangle :

8 = 1x8 (Part - III) حصہ سوم

(4) : (الف) سوال نمبر 8

Find "K" so that the line joining A(7, 3), B(k, -6) and the line joining C(-4, 5), D(-6, 4) are perpendicular.

(4) : (ب)

Two right cones have volumes in the ratio 64 : 125. What is the ratio of their base areas? : (الف) سوال نمبر 9

Deviations from 12.5 of ten different values are 6, -2, 3.5, 9, 8.7, -5.5, 14, 11.3, -6.8, -4.2, find the Arithmetic Mean. : (ب)

(4) $m\overline{AB} = 5\text{ cm}$, $m\overline{BC} = 6\text{ cm}$, $m\overline{AC} = 7\text{ cm}$: (الف) سوال نمبر 10

Construct $\triangle ABC$ with the given measurements $m\overline{AB} = 5\text{ cm}$, $m\overline{BC} = 6\text{ cm}$, $m\overline{AC} = 7\text{ cm}$ and verify that the perpendicular bisectors of the Triangle are Concurrent. : (ب)