

PUNJAB EXAMINATION COMMISSION EXAMINATION 2015, GRADE 8 MATHEMATICS PART – B (Subjective Type)

Model Paper 2

Part-A = 48 Marks, Part-B = 52 Marks, Total Marks = 100

						صرف متحن کے استعال کے لیے				
Student Name (In Capitals)							Q. No.	Marks	Signature of Examiner	Signature of Head Examiner
Roll Number (In Figures)		-			-		33 34 35			
Superintendent Signature						36 37 Total	E a P			
								For off	icial use or	nly ———

General Instructions

1. Students are advised to attempt all questions.

ا۔ طالبعلموں کو ہدایت کی جاتی ہے کہ وہ تمام سوال حل کریں۔

2. A question can consist of two or more parts.

3. Use blank space given below each question to write the answer.

4. No additional pages will be given for writing.

Part-B (Open Ended Questions)
 Time Allowed 1 hour 30 minutes

 Q.No. 33 (a) If
$$A = \{2,4,6,8,10\}$$
 and $B = \{1,2,3,4,5,6,7,8\}$ then find $A \cap B$
 (3)

 $|A| = \{2,4,6,8,10\}$
 $|B| = \{1,2,3,4,5,6,7,8\}$

- (b) Find the square root of 2 up to 2 decimal places
- "2"کا2مراتباعشاریه تک جذرمعلوم کریں۔

(5)

(c) Find the cube root of 125

(2) کاجذرالمکیب معلوم کریں۔

- Q.No. 34 (a) Convert (1432)₅ into decimal system.
- (2) 1432)5 کو اعشاری نظام میں تبدیل کریں۔
- (4) The annual income of Khalid is Rs. 2346000. The amount of rebate in tax is Rs. 400000. Calculate the amount of income tax at the rate of 17.5%.

 خالد کی سالانہ آ مدنی 2346000 دو ہے۔ گئیں میں چھوٹ 400000 دو ہے۔ 17.5% حساب سے اٹم کئیس کی رقم معلوم کریں۔

(c) If the price of 12 metre long and 6 metre wide carpet is Rs.4716, what will be the price of 8 metre long and 3 metre wide such carpet?

اگر 12 میٹر لیج اور 6 میٹر چوڑے قالین کی قیمت 4716رویے ہو تواہیے 8 میٹر لیج اور 3 میٹر چوڑے قالین کی قیمت کیا ہوگی؟

Q.No. 35 (a) Solve
$$(2x^2 + 2x + 3) - (x-2)$$

(b) Factorize
$$x^2 - 14x + 49$$

$$x^2 - 14x + 49$$
 $= 7.3$ (3)

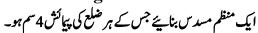
(c) Solve the given simultaneous linear equations by using the method of **(5)** equating the coefficients.

$$2x + y = 6$$
$$x + 2y = 9$$

Q.No.36: (a) By using Hero's formula, find the area of a triangle when the lengths of its sides are 6 cm, 8 cm and 10cm.

میر و کے کلیے کی مددسے مثلث کار قبہ معلوم کریں جبکہ اس کے اصلاع کی لمبائیاں 8 cm, 6 cm اور 10 cm بیں۔

(b) Construct a regular hexagon with each side measuring 4 cm.



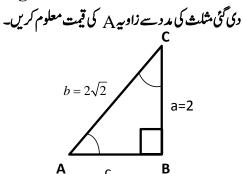
(6)

(7)

(3)

Q.No. 37 (a) Prove that if two lines intersect each other, then the opposite vertical angles are congruent.

(b) Find the value of angle A from the given triangle.



(c) Find the mode of data 3, 5, 4, 2, 4, 6, 5, 4, 3, 7.

(2)