

H. P. BOARD OF DEPARTMENTAL EXAMINATION  
DEPARTMENTAL EXAMINATION FOR TEHSILDARS AND  
NAIB TEHLIDARS, OCTOBER, 2015

PAPER NO-2 ARITHMETIC AND PATWARI MENSURATION.

TIME ALLOWED: 3 HOURS.

MAXIMUM MARKS: 100

NOTE :1 Attempt any five questions. All questions carry equal marks. At least two questions from each part.

2. The candidate may answer the question either in English or Hindi

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**PART -1 ARITHMETIC**

Q.No.1(A) A man is standing on a railway bridge which is 50 meters long. He finds that a train crosses in  $4\frac{1}{2}$  second but himself in 2 seconds. Find the length of the train and its speed.

(b) A man can row 6 kilometre per hour in still water. It takes him twice as long to row up as to row down in the river. Find the rate of the stream.

(10+10=20)

Q.No.2(a) A man covers a distance of a town A to town B at 30 KM PH and rides back from B to A at 20 KM PH. Find the average speed during the whole journey.

(b) The average of 11 results is 50, if the average of first 6 results is 49 and that of last 6 is 52, find the sixth result.

(10+10=20)

Q.No.3(a) Find the area of the iron sheet required to prepare a cone 24cm high with base radius 7cm.

(b) A closed wooden box with external dimensions 80cm x 60cm x 40cm is made of 2cm thick wood. If  $1\text{cm}^3$  would weighs 10gms, find the weight of the empty box.

(10+10=20)

Q.No.4(a) The base of a triangular field is three times its altitude. If the cost of cultivating the field is at Rs. 240 per hectare be Rs. 3240, find its base & height.

- (b) The diameter of the wheel of a bus is 140 cm. How many revolutions per minute must the wheel make in order to keep the speed of 66km per hour?

(10+10=20)

### PART-2 MENSURATION

Q.No.5 Define & differentiate between the following

- (i) Estate and sub- estate
- (ii) Wazib -ul-Arz and Riway -e- Aam
- (iii) Release deed and family settlement
- (iv) Gair mumkin Rasta & Shar-e- aam Rasta
- (v) Occupancy Tenant and Non- Occupancy Tenant

(4x5=20)

Q.No.6 What do you understand by record-of-rights ? Write short notes on each documents attached with the records of rights.

(20)

Q.No.7(a) What are the purposes of Crop-inspection ( Girdawari)?

- (b) What are the roles and responsibilities of all the Revenue officials & Revenue officers for accurate Crop inspection.

(10+10=20)

Q.No.8(a) How the land is measured during settlement if river comes between two points?

- (b) What is the procedure for correction between two settlements ?

(10+10=20)