

**HP board of departmental examination for Tehsildar and Naib tehsildar's
June 2021**

Paper 2. Arithmetic. And Patwari Mensuration

Time allowed: 3 Hours.

Maximum marks:100

Note-:

1. Attempt any five questions from each part. All questions carry Equal marks.
2. The candidates may answer the question either in Hindi or English.

Part A: Arithmetic
Attempt any five questions

Question 1.

Find the least square number, which is divisible by 8, 15 and 24.

(10 marks)

Question 2.

The ratio of water and syrup in 10 Litres Of mixture is 3:5 then how many litres of the mixture must be withdrawn and replaced by water so that the new mixture may contain half water and half syrup?

(10 marks)

Question 3.

The population of a town is 30,000, if the number of males were increased by 4 % and the number of females by 7%, the population would become 31,380. Find the number of males and the number of females in the town?

(10 mark)

Question 4.

A and B can do a work in 30 and 25 days respectively. After two days C joins them and the work is finished in 8 days more. How many days can C alone do the work?

(10 marks)

Question 5.

A rectangular field of 60 meters in length and 30 meters in breadth is surrounded by a road of 5.75 metres. Find out area of the road?

(10 marks)

Question 6.

The slant height of a conical Tomb is 17 and a half metres. If its diameter is 28 meters. Find the cost of constructing it at rupees 1.35 per cubic Meter and also Find the cost of White washing its slant surface at rupees 3.30 Per 100 square metres.

(10 marks)

Question 7.

Calculate the area of a field which has four arms of the following lengths:-
meters, 20 metres and 15 metres.

10 meters, 12

(10 marks)

Part-II Patwaris Mensuration

Question 8

Write short notes on the following.

- (i) Computerization of land records.
- (ii) Computerization of registration.
- (iii) Modern record rooms.
- (iv) ETS and GPS
- (v) CHANDABANDI

(10 marks)

Question 9.

- (I) Describe the simplest method of measuring, at the time of Girdawari, a field with crop there on.

(5 marks)

- (ii) What do dotted lines in a field map indicate?

(5 marks)

Question 10.

How do you compare the boundaries of a village, in the map with the boundary of the adjacent village in the map of latter, at re-measurement?

(10 marks)

Question 11.

Under what circumstances is demarcation necessary, and how it is carried out on the spot in respect of a disputed khasra number?

(10 marks)

Question 12.

- (I) What papers should a patwari have with him during his field measurement?
- (II) What appliances are used in copying Musavis?

(10 marks)

Question 13.

(I) What are the units of length and area in Himachal Pradesh Revenue Department?

(3 marks)

(ii) Define PERPENDICULAR?

(4 marks)

(iii) What is the Diagonal?

(3 marks)

Question 14.

Write brief notes on the following:-

- (i) Baseline
- (ii) Index Map
- (iii) Scale
- (iv) Chain
- (v) Adda

(10 marks)