

HP BOARD OF DEPARTMENTAL EXAMINATION
DEPARTMENTAL EXAMINATION FOR TEHSILDARS AND NAIB-TEHSILDARS

PAPER NO.2 ARITHMATICS AND PATWARI MENSURATION

Max Marks - 100

- A. Attempt any five questions. All questions carry equal marks.
B. The candidate may answer the questions in Hindi or English
C. At least two questions should be attempted from each part.

SESSION-DEC-17

Part A(Mensuration)

- (1) Which land records are treated as part of record of rights and why. What is the procedure for periodic revision of the record of rights and how is this done in case of Settlement operations. 5+5+10
- (2) Distinguish between the following while briefly defining the procedure for making entries in revenue record regarding these:
(a) Will and family settlement
(b) Khatauni and fieldbook
(c) Gair Mumkin and Abadi land
(d) Correction of revenue entry by Fard badar and through revenue cases 5+5+5+5
- (3) (a) Describe the restrictions on variation in entries of revenue record as per provisions of HP Land Revenue Act
(b) How and when is a special assessment of land revenue is made. 10+10
- (4) (a) A plot of land is 60 metres long and 30 metres wide. Find how many apple trees can be planted in that plot if these trees are to be planted at a distance of one and half metres from each-other?
(b) In a plot of land measuring 1504 square metres, find the exact share of land in square metres of the following:
A who has 16 out of total 54 shares,
B who has 9 shares,
C who has 21 shares, and,
D who has the remaining share
The share coming in fraction of a square metres can be rounded to the next or lower sq metres as per rule of decimals 10+10

Part B(Arithmetic)

- (5) (a) Find the interest on Rs 8000 for a period of one year at 20% interest rate compounded on quarterly basis.
(b) Find the difference between simple interest and the compound interest on a sum of Rs 5000 at an interest rate of 8% after a period of three years. 10+10

(6) (a) A swimming pool is 20 metres in length, 15 metres in breadth and four metres deep. Find the cost of cementing its floor and walls at the rate of Rs 12 per square metres

(b) Ram can do a piece of work in 25 days while Shayam can do the same work in 20 days. Both of them work together for 5 days and after that Ram goes away. In how many days Shayam will finish the remaining work?

10+10

(7) (a) In a girls' hostel, there is provision of food for 40 days. Due to some natural calamity in the neighbouring girl's hostel, 30 more girls are accommodated in that hostel. How long the food provision will last?

(b) If the manufacturer gains 10%, the wholesale dealer gains 15% and the retail seller gets 25% profit, then what is the cost of production of water geyser the retail price of which is Rs 1265.

10+10

(8) (a) In an election a candidate got 75% of total valid votes. 15% of the total votes polled were declared invalid. In case the total number of votes in the constituency is 5,00,000, then find the number of valid votes polled in favour of the candidate.

(b) How many wooden cubical blocks of edge 20 centimetres can be cut from a log of wood of size 8 metres by five metres by 80 centimetres assuming that there is no wastage.

10+10

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