

**H.P.BOARD OF DEPARTMENTAL EXAMINATION  
DEPARTMENTAL EXAMINATION OF TEHSILDARS/ NAIB- TEHSILDARS  
OF HIMACHAL PRADESH SESSION NOVEMBER, 2009**

**Paper-2**      **(Arithmetic and patwaris Mansuration)**

**Time Allowed: 3 Hours.**

**Maximum Marks: 100**

**Note:- 1. The Candidates may answer the questions either in Hindi or English.  
2. Attempt five questions.  
3. Attempt at least two questions from each part.**

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**PART-A (ARITHMETIC)**

- Q.No.1 a) Divide Rs. 570 between A, B and C so that A gets  $\frac{3}{4}$  of what B gets and B gets  $\frac{1}{3}$  of what C gets. Find the share of each. **(10 Marks)**  
b) Arrange in descending Order of magnitude:-  
 $\frac{2}{3}$ ,  $\frac{3}{4}$ ,  $\frac{5}{7}$ ,  $\frac{5}{6}$ ,  $\frac{8}{9}$ ,  $\frac{11}{13}$  **(5 Marks)**  
c) Express correct to three decimal places the difference between the largest and smallest of the following fractions:-  
 $\frac{4}{7}$ ,  $\frac{5}{8}$ ,  $\frac{7}{12}$  **(5 Marks)**
- Q.No.2 a) A tape recorder is sold for Rs. 935/- at a profit of 10% what would have been The actual profit or loss if it had been sold for Rs. 810/-? **(10 Marks)**  
b) A can do a piece of work in 20 days. B can do it in 25 days. They work together for 5 days and then B goes away. In how many days will A finish the work? **(10 Marks)**
- Q.No.3 a) Two candidate fought parliamentary election. Winning candidate get 57% of The valid votes casted and he won the election by the margin of 42000. Calculate following:-  
(i) Number of total casted votes.  
(ii) Number of votes casted to the defeated candidate. **(10 Marks)**  
b) A square playground has an area measuring 256. 6404 square meter. Find out one side of this square playground. **(10 Marks)**

**PART-B (MENSURATION)**

- Q.No.4 (i) How the Zareb ( जरेब ) is corrected when it is either long or short?  
(ii) How the Zareb andazi is done of a line?  
(iii) What is an Estate? What are the grounds of the making of an Estate?  
(iv) What does amended (Tarmim- तस्मीम ) measurement means? Why it is needed and how it is done? **(5 x 4 = 20 Marks)**

- Q.No.5 a) What is meant by Base- Line? How is the base line of alluvial and diluvial Villages is fixed?
- b) How is Mauka ( मौका ) is fixed on land with the help of Shazra (Map). Explain the procedure of this?
- c) Differentiate between Sehada ( सेहदा ) and Burgi and explain it when and where they are fixed as per Rules. What are there forms and dimension and explain of which material they are made up.
- d) What is meant by Shishat ( शिस्त ) and for which purpose it is used? How the accuracy of Shishat is judged? **(5 x 4 = 20 Marks)**

- Q.No.6 a) How the measurements of Forest land is done? Explain it and make a Kacha Naksha ( कच्चा नक्शा ) for it.
- b) How the measurement of isolated and single field is done?
- c) After measurement what is the procedure for calculating the area of Khasra numbers? **(8 + 8 + 4= 20 Marks)**

Q.No.7 Write notes on the following:-

- (i) Tank Bast
- (ii) Naksha Bartan
- (iii) Tartib Khatoni
- (iv) Naksha Riwayat Abpashi
- (v) Up- Mahal
- (vi) Line Mukabla
- (vii) Tahrij Asamiwar
- (viii) Abiana
- (ix) Chahi Khalis
- (x) Muntakhib Asamiwar

**(10 x 2= 20 Marks)**

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