

DEPARTMENTAL EXAMINATION OF TEHSILDARS/NAIB TEHSILDARS OF
HIMACHAL PRADESH
NOVEMBER 2009

PAPER: 2- ARITHMETIC AND PATWARIS MANSURATION

Time Allowed: 3 Hrs.

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.

PART I 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)

(b) Arrange in descending Order of magnitude:-

$\frac{2}{3}, \frac{3}{4}, \frac{5}{7}, \frac{5}{6}, \frac{8}{9}, \frac{11}{13}$

(c) Express correct to three decimal places the difference between the largest and smallest of the following fractions:- (5)

$\frac{4}{7}, \frac{5}{8}, \frac{7}{12}$

(5)

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)

(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)

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)

(b) A square playground has an area measuring 256.6404 square meter.

Find out one side of this square playground. (10)

PART -II- 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- तरमीम) measurement means ? Why it is needed and how it is done ? (5x4=20)

P. J. O.

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 (शिशत) and for which purpose it is used ? How the accuracy of Shishat is judged ? **(5x4=20)**

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)**

Q. No.7.

Write notes on the following:-

- (i) Thak 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 **(10x2=20)**

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