

Departmental Examination for Tehsildars and Naib Tehsildars

October -2013

Paper No-2

Arithmetic and Patwari- Mensuration

Max. Marks-100

Time: 3 hours.

1. Attempt any five questions. All questions carry equal marks. At least two questions from each part.
2. The candidate may answer the questions either in English or Hindi

Q.No.I (a) Find the square root of 237.615 correct to three places of decimal. (10)

Q.No.I (b) A can do a piece of work in 25 days and B can finish it in 20 days. They work together for 5 days and then A goes away. In how many days will B finish the remaining work? (10)

Q.No.II (a) A businessman starts his business by 75000 –Rupees and after the end of first year earns profit of 12%. He utilizes the profit and initial sum for the next year business, but after end of second year business, he loses by 10%. Calculate what percentage loss or gain he made after two years business. (10)

Q.No.II (b) The difference between the compound interest and the simple interest on certain sum at 10% per annum for 3 year is Rupees 93. Find the sum. (10)

Q.No.III (a) The price of sugar goes up by 20%. By how much percent must a housewife reduce her consumption, so that the expenditure does not increase? (10)

Q.No.III (b) The length of a rectangle exceeds its breadth by 4 cm. if length and breadth are each increased by 3cm, the area of the new rectangle will be 81 cm square more than that of given rectangle. Find the length and breadth of the given rectangle. (10)

Q.No.IV (a) Rajeev bought a car at Rs 1, 75,000. If its value depreciates at the rate of 20% p.a., what will be its value after three years? Also find the total depreciation. (10)

Q.No.IV (b) The length of school hall is 45 meters and breadth is 30 meters. Outside this school hall there is 5meters courtyard on all the four sides. Calculate the area of this courtyard. What will be the cost to concertize this courtyard? If the cost of concretize one square meter is 70 rupees. (10)

Part –II (Mensuration)

Q.No.V (i) What do you understand by the terms **Record of Rights** and **Periodical Record**? Discuss the significance of **Shajra- Kishtwar**, how important is it with day today functioning of the Patwari? (10)

Q.No.V (ii) How is tatima carved out during settlement operation? Decide the process and precautions to be taken on spot while carving out tatima on spot? (10)

Q.No.VI What do understand by **demarcation of given land**? What precautions should one observe, while carrying out demarcation of disputed land? Discuss in detail the **instructions of the Financial Commissioner (Revenue)** for carrying out demarcation. **(20)**

Q.No.VII (i) What are the main objectives of conducting settlement operations? Do these objectives have the relevance in the present context to continue the operations? **(10)**

Q.No.VII (ii) What is the plain table system of the survey? How is the record prepared with this system? **(10)**

Q.No.VIII Explain the following.

(i) Base line.

(ii) Estate.

(iii) Arrear of land revenue.

(iv) Assessment circle.

(v) Kismi tenant.

(vi) Definition of land under tenancy act.

(vii) Abadhi -Deh.

(viii) Adda.

(ix) Chandabandi.

(x) Permissible area under H.P Land Ceiling act. **2x10=20**
