

Total No. of Printed Pages:02

SUBJECT CODE NO:- H-382
FACULTY OF SCIENCE AND TECHNOLOGY
F. E. (All)
Basic Civil Engineering
(REVISED)

[Time: Two Hours]

[Max. Marks:40]

N.B Please check whether you have got the right question paper.

- 1) Question no 1 is compulsory.
- 2) Attempt any two questions from Q.2 to Q.5.
- 3) Draw neat sketches wherever necessary.
- 4) Assume suitable data if necessary.

Q.1 Answer the following (any five):

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- a) Define Sedimentation.
- b) Draw a Labelled diagram of soaked pit.
- c) Define filtration.
- d) Define surveying.
- e) Enlist types of dam.
- f) Define fire demand.
- g) Define water shed area.
- h) Draw figure of Septic Tank.

Q.2 Answer the following.

- a) Which points should be considered in the selection of site for residential building 06
- b) The following consecutive readings were taken with dumpy level and 4m staff on a 09
continuously sloping ground 1.65, 1.92, 2.5, 1.6, 1.85, 2.15, 2.50, 2.10, 2.68, 2.90. The
instrument was shifted after taking 2nd and 5th reading. Calculate R.L.S of all the points. If R.L.
of B.M. =135.00M.

Q.3 Answer the following.

- a) What are the salient features of Nagpur Road Plan. Also write the advantages of road 07
transportation?
- b) Describe with neat sketch the prismatic compass. 08

Q.4 Answer the following.

- a) Draw the flow diagram of water treatment plant and function of different unit. 05
- b) Explain in detail Arithmetic Increase method. 05
- c) Using geometric Increase method, find the population for the year 1980, 1990, 2000, 2010. 05

Year	1940	1950	1960	1970
Population	9050	13,050	18,600	29,500

Q.5 Answer the following.

- a) Which factors are considered for selection of site for a dam?
- b) Necessity of Irrigation and benefits of irrigation.
- c) What is the necessity of rain water harvesting?

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