

CIVIL ENGINEERING

Paper II

Time Allowed : Three Hours

Maximum Marks : 200

QUESTION PAPER SPECIFIC INSTRUCTIONS

Please read each of the following instructions carefully before attempting questions.

There are EIGHT questions in all, out of which FIVE are to be attempted.

Question Nos. 1 and 5 are compulsory. Out of the remaining SIX questions, THREE are to be attempted selecting at least ONE question from each of the two Sections A and B.

Attempts of questions shall be counted in sequential order. Unless struck off, attempt of a question shall be counted even if attempted partly. Any page or portion of the page left blank in the Question-cum-Answer Booklet must be clearly struck off.

All questions carry equal marks. The number of marks carried by a question/part is indicated against it.

Answers must be written in ENGLISH only.

Unless otherwise mentioned, symbols and notations have their usual standard meanings.

Assume suitable data, if necessary and indicate the same clearly.

Neat sketches may be drawn, wherever required.

SECTION 'A'

- 1.(a) A 9 degree curve branches off from a 8 degree main curve in an opposite direction in the layout of a M.G yard. If the speed restriction on main line is 40 km/hr., what would be the speed restriction on branch line ? Assume permissible cant deficiency as 50 mm. 8
- 1.(b) A two lane undivided State Highway with thick bituminous pavement surface in high rainfall region has horizontal curve of radius 2950 m. If design speed is 100 km/hr., what is the superelevation requirement ? Also draw the cross-section at curved portion. 8
- 1.(c) A line of levels was run from A to B. The levelling was then continued to a B.M. of elevation 40.0 m. The readings obtained are as under. Obtain the reduced level of A and B. 8

| B.S | I.S | F.S | R.L | Remarks |
|-------|-------|-------|------|---------|
| 1.195 | | | | A |
| 0.445 | | 2.370 | | |
| 2.150 | | 0.995 | | |
| | 0.720 | | | B |
| 1.465 | | 0.260 | | |
| 2.630 | | 0.905 | | |
| | | 1.305 | 40.0 | B.M |

- 1.(d) Explain in brief the important factors that affect the selection of Construction Equipment. 8
- 1.(e) Write short note on the following :
(i) Light weight aggregate concrete.
(ii) Types of rollers commonly used in construction projects for compacting soil. 8

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