

MAHARASHTRA JEEVAN PRADHIKARAN

Examination Conducted by

**MAHARASHTRA ENVIRONMENTAL ENGINEERING TRAINING &
RESEARCH ACADEMY (MEETRA) NASHIK**

Professional Examination of A.E. –II /Sectional Engineer/Jr. Engineer/
(Civil /Mech)October 2018

Subject : General Engineering (Civil) – (Oral)

Roll No.

Date :- 30/10/2018

Time :- 14.00 To 14.30 Hrs.

Marks: -50

- Note : 1) All Questions are compulsory.
2) Use of Calculator, Log table is allowed
3) Figure in bracket on right hand side indicates total marks.
4) Make suitable assumption where necessary and state them.
5) Use of mobile, Laptop and tab are not allowed.

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Question No.	1	2	3	4	5	Total
Marks Obtained						

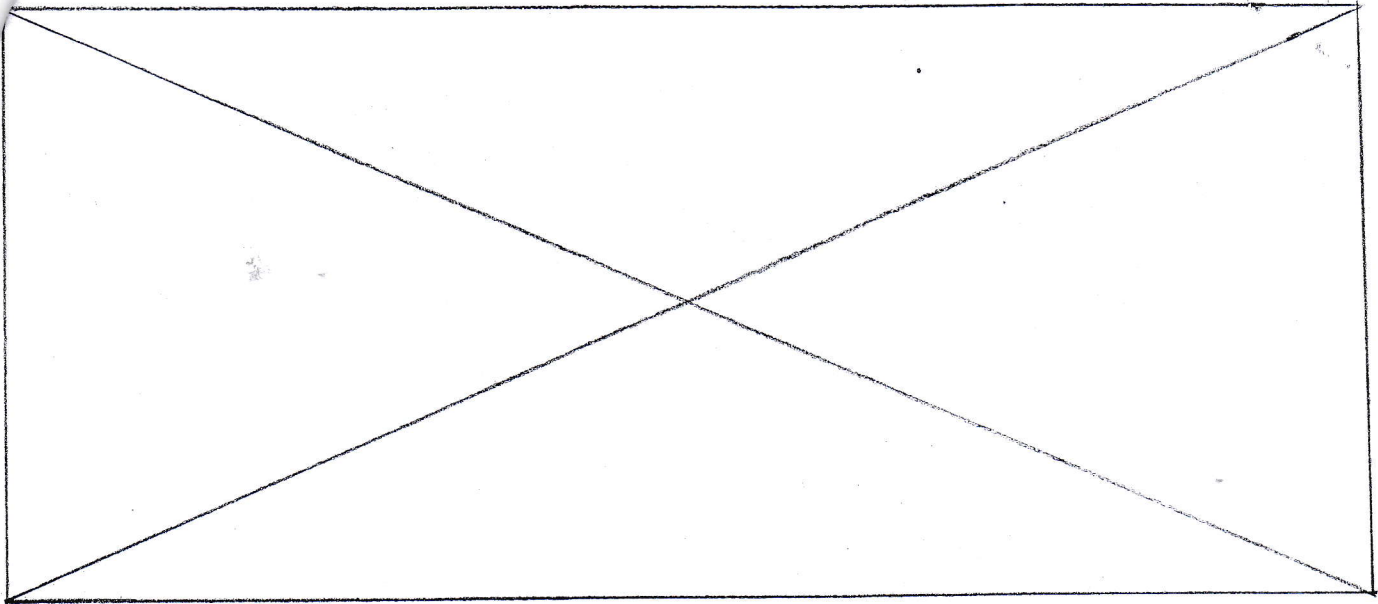
Signature of Supervisor

Signature of Examiner

Question No. 1 : Write full form of the following.

(10)

- (a) IRC : _____
(b) MSL _____
(c) CTD bars _____
(d) MDDL _____
(e) BIS _____
(f) CBR _____
(g) G.T.S. _____



..2..

- (h) CPM & PERT
- (I) AMRUT
- (j) P.V. Claims

Question No. 2 : Fill in the Blanks. **(10)**

- (a) In case of RCC wells, the Earth Pressure is at bottom most portion.
- (b) Trade up to mm is admissible in the case of stair case.
- (c) % of the floor area has to be provided to residential building for windows.
- (d) Cement should be consumed within maximum months for concrete.
- (e) Slump test is carried out on concrete for Control of
- (f) The minimum dia. for a public sewer may be mm.
- (g) A power driven inclined continuous stair way used for raising or lowering passenger is called as
- (h) Self cleaning velocity for sewers for Design peak flow.....
- (I) Minimum diameter of pipe used for Rising main is mm.
- (j) The standard cement consumption of the RCC M250 is bags per m³

Question No. 3 :

(A) Which types of pipes, used in Water supply scheme with their C, valve.(5)

- (i)
- (ii)
- (iii)

(B) Mention unit of measurement as per MJP DSR

(i) G.I., Pipe railing

(ii) Trial Bore

(iii) Pressure Grouting

(iv) Cross connection to Existing Distribution system

(v) Inner Cement Mortar lining

(5)

Question No. 4 : Write the following. (10)

(i) Define Reflux Valve

(ii) Define Sullage

(iii) Define the terms flight & Trade in stair case.

(iv) Enumerate various Test carried out on cement.

(v) State Various types of piles in foundation work.

Question No. 5 : Write the following.

(A) Explain the Use of instruments in one sentence. (5)

- (i) Optical Square -----

- (ii) Hydroscope -----

- (iii) Planimeter -----

- (iv) Current meter -----

- v) Plate vibrator -----

(B) What is the Dead weight of following material. (5)

- (i) Tar ----- kg/cum
- (ii) G.I. Sheet (16 gauge) ----- kg/sqm
- (iii) Steel ----- kg/cum
- (iv) Concrete ----- kg/cum
- (v) Brick work ----- kg/cum