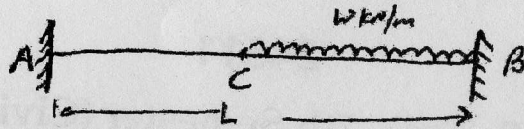


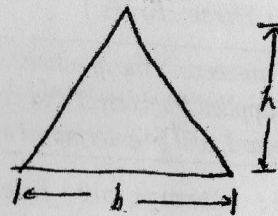
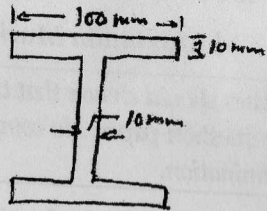
SECTION - A

2. Determine the collapse load of beam shown in Fig : 20



The beam is of uniform plastic moment M_p .

3. Calculate the shape factor of the section as shown in Fig : $10 \times 2 = 20$



SECTION - B

4. (a) What are the various loads that act on a roof truss ? Explain in detail. 10
 (b) What are the stepped columns ? With the help of a neat sketch show the various components of stepped columns. 10
5. Design the following components of a circular elevated water tank for a capacity of 165000 liters. The height of the tank bottom above the ground level is 8 m. The tank is supported over eight columns and is situated at the railway station in Allahabad : 20

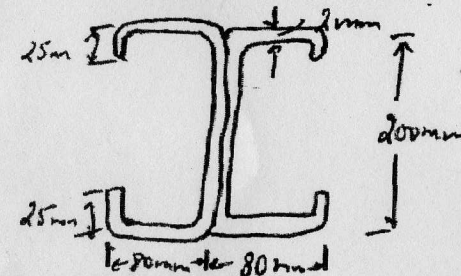
- (a) Size of tank,
 (b) Thickness of plates,
 (c) Connections.

SECTION - C

6. Design a self-supporting steel stack with a 100 m height to be constructed at Allahabad. The diameter of cylindrical shaft is 4 m. The stack has 110 mm thick lining. Design the plates of stack, base plate and anchor bolts only. Assume the necessary relevant data. 20
7. (a) Explain the design condition of transmission line towers. 10
 (b) What are the various loads acting on transmission line towers ? 10

SECTION - D

8. Design the column section and allowable load for the column section as shown in Fig. The effective length of column is 4 m. Take $f_y = 250 \text{ N/mm}^2$. 20



Roll No.

57512

BBA 2nd Semester (N. S.) 2014-17

Examination – May, 2019

MACRO ECONOMIC ANALYSIS & POLICY

Paper : BBAN- 202

Time : Three Hours]

[Maximum Marks : 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Section – A is compulsory which consists of 8 short answer type questions. Section B consists of 8 question. You have attempt 4 questions, selecting one from each Unit. All questions carry equal marks.

SECTION – A

1. Describe the following :

- (a) Macro Economics
- (b) Circular flow of income
- (c) Cyclical consumption

57512-3,550-(P-3)(Q-9)(19)

P. T. O.