17583

14115

2 Hours / 50 Marks Seat No. | | | | | | | | |

Instructions – (1) All Questions are *Compulsory.*

(2) Answer each next main Question on a new page.

(3) Illustrate your answers with neat sketches wherever necessary.

(4) Figures to the right indicate full marks.

(5) Assume suitable data, if necessary.

(6) Use of Non-programmable Electronic Pocket Calculator is permissible.

(7) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any NINE of the following: **18**

a) State any four principles of Watershed Management.

b) State the use of remote sensing in Watershed Management.

c) Define 'Soil' as per Watershed Management.

d) State the uses of water conservation and soil capability in agriculture.

e) What do you mean by diversion structures? Give examples. (Any two).

f) Enlist any four geomorphological watershed characteristics.

g) Enlist the required hydrological data for watershed planning.

h) What is contour farming?

P.T.O.

Marks

i) Define 'Mulching'.

j) Distinguish between mixed cropping and crop rotation on any two points.

k) Define 'Rain water harvesting'.

2. Attempt any <u>FOUR</u> of the following: **16**

a) State any four advantages of crop rotation.

b) Explain the role of grasses in soil conservation.

c) Explain the various factors affecting Watershed Management. (any four)

d) Explain in brief about conservation farming.

e) State any four objectives of Watershed Management.

f) Explain the concept of Watershed Management.

3. Attempt any <u>TWO</u> of the following: **16**

a) (i) Explain the effects of cropping system on land Management.

(ii) State the various water budget parameters for watershed.

b) Explain in detail about "Ley Farming".

c) Explain the different Watershed Characteristics such as

(i) Geological characteristics.

(ii) Topographical characteristics.

(iii) Hydrological cover.

(iv) Physical characteristics and slope.
