

M.Sc. (Ag.) Examination, 2015
Semester – II
Agronomy : Agronomy of Oilseed Crops
Course : AGR-509

Time: 3 Hours

Full Marks: 50

Questions are of value as indicated in the margin.

Answer **any five** questions.

1. (a) Write in short about the problems and prospects of Oilseed cultivation in India.
(b) Discuss the modern production technology of groundnut with reference to growing seasons, seed treatment, fertilizer management and water management. 2+(2+2+2+2)=10
2. (a) Discuss the modern production technology of rapeseed-mustard with reference to sowing parameters, manures and fertilizers, weed management and varieties.
(b) Mention the different factors affecting the quality of mustard oil.
(c) Classify rapeseed-mustard group of crops. (2+2+2+1)+1.5+1.5=10
3. Write in short about the package of practices of soybean cultivation with special reference to sowing variable, soil and climatic requirements, nutrient management, water management and yield. 3+2+2+2+1=10
4. Write short notes (**any five**): 5×2=10
 - (a) Paira cropping of linseed
 - (b) Triangle of U
 - (c) Economic importance of safflower
 - (d) Gypsum plastering
 - (e) Nutrient management in safflower
 - (f) Anti nutritional toxicity in soybean
 - (g) Causes of low yield of safflower
5. (a) Write down the improved agronomic practices in sesame with relation to sowing parameters water management and nutrient management.
(b) Briefly discuss about uses of linseed oil.
(c) Write a short note on cultivation of dual purpose linseed. (2+2+2)+2+2=10
6. (a) Write down the importance of sunflower and castor.
(b) Discuss the improved agronomic practices of sunflower in relation to planting variables, nutrient management and water management. (2+2)+(2+2+2)=10

P.T.O.

7. Briefly discuss the following (*any five*):

5×2=10

- (a) Importance of safflower in dry land areas
- (b) Prevention and control of *Aflatoxin* contamination
- (c) Retting of linseed
- (d) Role of sulphur in oilseed crops
- (e) Oil quality of sesame
- (f) Pegging in groundnut
- (g) Soybean-a wonder crop

8. Describe the following (*any five*):

5×2=10

- (a) Castor cultivation in marginal land
 - (b) Pungency in mustard oil
 - (c) Poly unsaturated fatty acid
 - (d) Late sowing of mustard and rapeseed in West Bengal
 - (e) King of Oilseed
 - (f) Nipping in Castor
 - (g) Problem of seed setting in sunflower
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