FS – 6 / 15-16 Agricultural Paper – II

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to Insignation (Time : 3 hours)

The figures in the right-hand margin indicate marks.

Candidates should attempt Q. No. 1 from Section – A and Q.No. 5 from Section – B which are compoulsory and any **three** of the remaining questions, selecting at least **one** from each Section.

to athematiques y SECTION - A is no evid (a)

- 1. Answer any **two** of the following out of (a), (b) and (c):
 - (a) Compare two and four stroke-cycle engines on the basis of efficiency, power, utility and simplicity in design.
- (b) Calculate the weight of fuel per kW-h of a diesel engine that has the following specification:
- (i) Compression ratio = 14 : 1

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(Turn over)

	(ii) Fuel	is cut off at	0.08 of the	stroke	
	(iii) Relat	ive efficien	cy = 52%		
	(iv) Calor	rific value o	f fuel = 10,	000 kcal/kg	
(c)	Define tr	action effi	ciency, co	g traction for the selficient of the selficient	f
(TA)	machine		ng brief o	g methods lescription	1
(b)	Describe		ng of Kna	f sprayers f apsack type ketch. 20	Э
(d) (s)		ral operat		uirements o uding agro 20	ī
		ance of ele		n, safety and ors used in 20	n
	of Pneun Cum Fei	natic Seed	Drill and Z	ero Till See conventiona	d al
LB – 6/2		(2)		Conto	l. ₁

(b) Differentiate between the following:

 $4 \times 5 = 20$

- (i) Primary and Secondary tillage tools
- (ii) Trailed, Semi-mounted and Mounted implements
 - (iii) Fixed type M. B. plough and Turn wrest plough
- landanea to (iv) Disc plough and M.B. plough ()
- (v) Spring loaded cultivator and Rigid tined cultivator

vioment viebno SECTION Big marga (a)

5. Answer any two questions of the following:

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- (a) Describe various unit operations in Agricultural Processing.
 - (b) Explain the main features and important components of seed processing plant.
 - (c) Explain the various engineering properties of agricultural produces and by-products, affecting its handling and processing.
- (a) What are the important considerations in processing of milk and dairy products?
 Explain in detail.

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(3)

(Turn over)

		What is Homogenization and Sterilization?			
	(= d)	Describe the purpose and methods of			
	0018	nomogenization in brief.			
7.	(a)	Differentiate between sequential and combinational circuits with an example.			
		riguola tenw 20			
	(b)	Explain, in brief, different types of sensors/			
big	gisi b	transducers used for measurement of			
		temperature. Obsvitius benit 20			
8.	(a)	Explain primary and secondary memory			
	. 6	devices in detail. Soup own yns 19wan A 20			
40	(D)	Write short notes on any four of the following			
ni-	SUO	trained from shorts and observed to the security of the securi			
		(i) Flow Chart			
101	ports nt.	(b) Explain the main features and in components of see sibemitluM (ii)			
		(iii) Hardware and Software			
	oubo	(iv) Computer Networks			
		(v) Applications of Computer			
		6. (a) What are the important considera			
9 :		processing of reve and dainy pro-			
20		Explain in detail.			

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(4)

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