MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION

B.Sc. (Agri.)

Semester	: V (New)	**Term**	: I	**Academic Year**	: 2016-17
Course No.	: ASDS 353	**Title**	: Technology of Milk and Milk Products		
Credits	: 2(1+1)				
Day & Date	: Tuesday, 22.11.2016	**Time**	: 14.00 to 16.00	**Total Marks**	: 40

Note :
1. Solve **ANY EIGHT** questions from **SECTION "A".**
2. All questions from **SECTION "B"** are compulsory.
3. All questions carry equal marks.
4. Draw neat diagrams wherever necessary.

SECTION "A"

Q.1 Define milk. Explain its nutritional significance on the basis of various constituents.

Q.2 Write in brief on impact of following factors on milk composition.

a) Species
b) Stage of lactation
c) Season
d) Frequency and interval of milking

Q.3 Write in brief on following physic-chemical properties of milk.

a) Specific gravity
b) Viscosity
c) Specific heat
d) Refractive index

Q.4 Write in short on present status of dairy industry in Maharashtra and India.

Q.5 What do you mean by standardization? How will you prepare 500 kg milk with 4.0 % fat by using with 3.0 % fat and cream with 30.0 % fat.

Q.6 Define homogenization. State its merits and demerits.

Q.7 State the classification of milk products with at least one example each from Indigenous and Western type of milk product.

Q.8 Write short notes (Any Two).

1) AGMARK standards
2) Modified atmospheric packaging
3) Utilization of whey for value added products

Q.9 Define packaging. State the functions of packaging and prescribe requirements for ideal packaging material.

Q.10 Write in detail on HTST method of pasteurization with its merits and demerits.

SECTION "B"

Q.11 State only.

1) Freezing point and boiling point of milk.
2) Fat percentage in fore milking and stripping.
3) Types of homogenizers.
4) Spell out abbreviations of ISI and PFA with respect to legal standards.

Q.12 Match the following pairs.

"A"	"B"
1) Lecithin	a) Dissolved nitrogen
2) Xanthophylls	b) Phospho lipid
3) Carotene	c) Pigment
4) NPN	d) Vitamin A

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