Module Name : MSc Food Science and Nutrition-E Exam Date : 18-Sep-2020 Batch : 12:30-14:30

Sr. No.	Client Question ID	Question Body and Alternatives	Marks	Negativ Marks
Object	tive Question			
	1	In fruit processing which salt (concentration below 0.1%) is used?	4.0	1.00
		A1 Sodium		
		:		
		A2 Magnesium		
		: ·		
		A3 Calcium		
		A4 Potassium		
Dbject	tive Question		4.0	1.00
	2	This carbohydrate is used during intense exercising. Which among the following is it?	4.0	1.00
		A1 Starch		
		<u> </u>		
		A2 : Sucrose		
		A3 -		
		A3 Fructose		
		A4 Glycogen		
		:		
Object	tive Question			
}	3	Which of the following is correct?	4.0	1.00
		A1 Sucrose is made of galactose and glucose		
		:		
		A2 Lactose is made up of glucose and fructose		
		A3 : Lactose is made up of galactose and fructose		
		A4 Sucrose is made up of glucose and fructose		
	tive Question			
hing	4	Which of the following is a function of insoluble fiber only?	4.0	1.00
Dbject	n •	which of the following is a function of insoluble fiber only?		1.00
Dbject		A1		
Dbject		A1 Regulating blood sugar		

		A2 Regulating the pH of the body :		
		A3 Adding bulk to stool		
		A4 : Lowering cholesterol		
Objec	tive Question			
5	5	Mina is a diabetic patient. One day she was tempted to eat junk food. Which is a relatively a better food product to eat – pasta or candy? Why?	4.0	1.00
		A1 Pasta- contains primary carbohydrates which increases blood sugar level comparatively slowly and to a lesser level :		
		A2 Pasta- contains secondary carbohydrates which increases blood sugar level comparatively slowly and to a lesser level :		
		A3 Candy – contains primary carbohydrates which increases blood sugar level comparatively slowly and to a lesser level :		
		A4 Candy- contains secondary carbohydrates which increases blood sugar level comparatively slowly and to a lesser level :		
Objec	tive Question			
6	6	What is the main action of dietary fibers?	4.0	1.00
		A1 To ensure proper functioning of the liver		
		A2 To secrete hormones		
		A3 To maintain pH		
		A4 To make changes to how nutrients and chemicals are absorbed		
Objec	tive Question			
7	7	Which of the following is true?	4.0	1.00
		A1 Fats naturally occurring unless mentioned otherwise are trans in nature :		
		A2 Trans fats are essential and needed for the human body		
		A3 LC-PUFA stands for long chain poly saturated fatty acids :		
		A4 SC-PUFA stands for short chain poly unsaturated fatty acids :		
Objec	tive Question			

A1 Flavour :		
A2 : Texture		
A3 Softening		
A4 : Shortening		

Objec	tive Question			
9	9	Which of the following is incorrect?	4.0	1.00
		A1 Controlled cheese ripening is controlling some protein break down		
		A1 Controlled cheese ripening is controlling some protein break down		
		A2 Proteins form films		
		A3 Egg white cannot be whipped		
		A4 If proteins are over-whipped, the film breaks, foam collapses		
Objec	tive Question			
10	10	The storage of prepared food in areas in the of oxygen creates conditions for Which option best fits the above sentence?	4.0	1.00
		A1 Cold, presence, Purification		
		A2 Warm, absence, Putrefaction		
		A3 Cold, presence, Putrefaction		
		A4 Warm, absence, Purification		
Obiec	tive Question			
11	11	Statement 1: Foreign objects entering food is called physical contamination of food. Statement 2: Controlling moisture is the only precaution to be taken to prevent food contamination.	4.0	1.00
		Al True, False		
		A2 True, True		
		A3 False, False		
		A4 False, True		

	tive Question		4.0	1.0
12	12	A substance added that preserves flavour and improves taste is called	4.0	1.0
		A1 Food additive		
		A2 point and the second s		
		A2 Food adulterant		
		A3 Food contaminant		
		A4 Food material		
Objec	tive Question			
13	13	Statement 1: Stabilizers, Emulsifiers are certain examples of food additives.	4.0	1.0
		Statement 2: Antioxidant is a class of food additive.		
		A1 True, False		
		A2 True, True		
		A2		
		A3 False, False		
		A4 False, True		
	tive Question			
14	14	What are Sequestrants?	4.0	1.0
		A1 They are added to keep the food stable		
		42		
		A2 Form a complex ion with metals like copper, iron etc		
		A3 Added for colour		
		A4 They keep the food oxidized		
Objec	tive Question			
15	15	Statement 1: Preservatives are food additives.	4.0	1.0
		Statement 2: Sweeteners consist of calorie, low-calorie and non-calorie sweeteners.		
		A1 True, False		
		A2 True, True		
		A2 True, True		
		A2 True, True A3 False, False		

	1		11	1
		A4 False, True		
Objec	tive Question			
16	16	Which sentence is untrue?	4.0	1.00
		A1 GRAS stands for 'generally recognized as safe'		
		A2 Boric acid has been banned		
		A3 High levels of MSG leads to 'Chinese Restaurant Syndrome'		
		A4 Food additives need not be numbered or label		
Ohiec	tive Question			
17	17	Which of the following are NOT key constraints of the food processing industry?	4.0	1.00
		A1 Inadequate quality control		
		A2 : High packaging cost		
		A3 Low demand		
		A4 Poor infrastructure as in no cold storage, warehouse etc :		
01	i			
18	tive Question	Statement 1: A lot of changes take place in meat on storing at a chilled temperature. These change muscle to meat. Statement 2: The above process is called ageing or conditioning.	4.0	1.00
		A1 True, False		
		A2 : True, True		
		A3 False, False		
		A4 False, True		
Objec	tive Question			
19	19	When meat is passed through a coarse grinder plate it is called	4.0	1.00
		A1 Chunking		
		A2 Flaking		

A3 Restructured meat product

A4 Restructured meat product and Chunking :

Objective Question All Stripping Solvent off a meal is called _____ 4.0 1.00 20 20 Stripping Solvent off a meal is called ______ All Toosting Image: All and A

Objective Question

Obje	cuve Question			
21	21	Pulses contain large amount of	4.0	1.00
		A1 Fats		
		A2 Vitamins		
		A3 Proteins		
		A4 Minerals		

ctive Question			
22	Adenohypophysis is a part of	4.0	1.00
	Al Kidney		
	A2 Pituitary		
	A3 Pancreas		
	A4 Thyroid		
tive Question			
23	Bile contains	4.0	1.00
	Al Proteases		
	22 tive Question	22 Adenohypophysis is a part of A1 Kidney A2 Pituitary A3 Pancreas A4 Thyroid trive Question Bile contains	22 Adenohypophysis is a part of 4.0 A1 Kidney A2 A2 Pituitary A3 A3 Pancreas A4 Thyroid

		A2 Lipases :		
		A3 Sodium cyanide		
		A4 Sodium glycolate		
Objec	tive Question			
24	24	Reserpine is used to	4.0	1.00
		A1 Increase blood pressure		
		A2 Reduce pain		
		A3 Alleviate pain :		
		A4 Decreases high blood pressure		
Objec	tive Question			
25	25	Co-enzymes are mostly derived from	4.0	1.00
		Al Vitamin A :		
		A2 : Vitamin K		
		A3 Hemoglobin		
		A4 Vitamin B complex		
Ohiec	tive Question			
26	26	The hormone that contains iodine is	4.0	1.00
		Al Adrenaline		
		A2 Insulin		
		A3 Thyroxin		
		A4 Testosterone		
0h;-	tive Question			
27	27	An enzyme that acts only in an acidic medium is	4.0	1.00
		A1 Pepsin		

	:		
	A2 Trypsin		
	A ³ Renin		
	A4 : Amylase		

28	Recommended Dietary Allowances may be used to	4.0	1.00
	A1 Heasure nutrient balance of population groups		
	A2 Assess dietary nutrient adequacy for individuals		
	A3 Treat people with diet-related illnesses		
	A4 Calculate exact food requirements for most individuals		

Objective Ques			
29 29	is an example of an added sugar.	4.0	1.00
	A1 Raw sugar		
	A2 Eicosanoid		
	A3 Glycerol		
	A4 : Levulose		
Objective Ques	ion		
30 30	When there is insufficient glucose consumed to support metabolism, fat fragments combine to form?	4.0	1.00
	A1 Ketone bodies		
	A2 : :		
	A3 Chylomicrons		
	A4 : :		
bjective Ques	lion]	
1 31	What additive in celt movements the theorem is condition length as a celture?	4.0	1.00

	A1 Sodium caseinate	
	A2 Titanium oxide	
	A3 Cochineal extract	
	A4 Potassium iodide	
Objective Question		

Object	Objective Question			
32	32	White flour that has missing vitamins and minerals added back in is called flour.	4.0	1.00
		A1 Enriched		
		A2 : All-natural		
		A3 Fortified		
		A4 Whole wheat		
Ohian	tive Question			
33	33	Flat sour spoilage of acid foods is caused by	4.0	1.00
		That sour sponage of actu foods is caused by		1.00
		Al B. coagulans		
		A2 B. cereus		
		A3 both <i>B. coagulans</i> and <i>B. cereus</i>		
		A4 : B. stearothermophillus		
Object 34	tive Question		4.0	1.00
54	54	Which of the following is rich in short and medium chain fatty acids?	4.0	1.00
		A1 Sun flower oil		
		A2 Milk		

A3 Peanut oil

A4 : Almond oil

Objective Q	uestion		
35 35	Which of the following has highest glycaemic index?	4.0	1.00
	A1 Ice cream		
	A2 : Cucumber		
	A3 : Dextrose		
	A4 : Bread		
Objective Q 6 36	Heavy use of soy products as a substitute for meat can inhibit absorption of	4.0	1.00
	A1 Calcium		
	A2 Folate		
	A3 Vitamin D		
	A4 Iron :		
)bjective Q	Juestion		
7 37	Most of the hydrolysis of triglycerides occurs in the	4.0	1.00
	A1 : Mouth		
	A2 Stomach		
	A3 Small intestine		
	A4 Large intestine		
bjective Q	nestion		
8 38	Reserve fuel supply and basic fuel supply are the function of	4.0	1.00
	A1 Fats		
	A2 Carbohydrates		
	A3 Proteins		
	A4 Vitamins		

		$\parallel \cdot$		
	tive Question			
9	39	The milk streptococci produce acetoin that gets spontaneously oxidized yielding a flavouring agent (responsible for aroma of butter) that is	4.0	1.00
		A1 Acetone		
		A2 : Acetyl Co A		
		A3 Butyric acid		
		A4 Diacetyl		
	tive Question			
40	40	Which of the following is a food infection?	4.0	1.00
		A1 Salmonellosis		
		A2 Botulism		
		A3 Staphylococcal intoxication		
		A4 Rheumatoid arthritis		
Object	tive Question			
1	41	ADI value of aspartame is about mg/kg body weight.	4.0	1.00
		A1 0-40 :		
		A2 40-60		
		A3 55-79		
		A4 80-100 :		
	tive Question			
2	42	Separation of liquids from solid by the application pressure is known as:	4.0	1.00
		A1 Extraction		
		A2 Expression		
		A3 Filtration		

	:		
	A4 : Leaching		
Objective Question			
43 43	Which of the following amino acid has buffering capacity?	4.0	1.00
	Al Tryptophan :		
	A2 Cysteine		
	A3 Histidine		
	A4 :		
Objective Question			
44 44	The absorption of intact protein from the gut in the foetal and new-born animals takes place by:	4.0	1.00
	A1 Pinocytosis :		
	A2 : Passive diffusion		
	A3 Simple diffusion		
	A4 : Active transport		
Objective Question			
45 45	Which of the following enzyme is not involved in HMP shunt?	4.0	1.00
	A1 Glyceraldehyde-3-p-dehydrogenase		
	A2 Glucose-6-P-dehydrogenase		
	A3 Transketolase		
	A4 Phosphogluconate dehydrogenase :		
Objective Question			
46 46	Ehlers-Danlos syndrome characterized by hypermobile joints and skin abnormalities is due to:	4.0	1.00
	A1 Abnormality in gene for procollagen		
	A2 : Deficiency of lysyl oxidase		

A3 Deficiency of prolyl hydroxylase

A4 Deficiency of lysyl hydroxylase

A2 Coproporphyrinogen oxidase

A3 Uroporphyrinogen decarboxylase

A4 ALA decarboxylase

Objective Question 47 47 The fatty acid present in cerebrosides is: 4.0 1.00 A1 Lignoceric acid A2 Valeric acid A3 Caprylic acid A4 Behenic acid **Objective** Question 48 48 4.0 1.00 The enzyme involved in variegate porphyria is A1 Protoporphyrinogen oxidase

Objec	Dejective Question			
49	49	Water soluble iron is fortified in food with:	4.0	1.00
		A1 Ferrous sulphate		
		A2 Iodine		
		A3 Ascorbic acid		
		A4 Phytic acid		
Objec	tive Question			
50	50	The moisture content at which the drying rate ceases to be constant is known as:	4.0	1.00
		A1 Equilibrium moisture content		

		A2 Critical moisture content :		
		A3 Saturation moisture content		
		A4 Average moisture content		
Object	tive Question			
51	51	Which fungus is used for lactic acid production?	4.0	1.00
		A1 Fusarium monoliform		
		A2 : Rizopus orizae		
		A3 Aspergillus terreus		
		A4 : Aspergillus niger		
Object	tive Question			
52	52	D value is independent of	4.0	1.00
		A1 Microbial population		
		A2 Temperature		
		A3 Formulation		
		A4 Pressure		
Object	tive Question			
	53	The smallest unit of collagen molecular structure is	4.0	1.00
		A1 Reticulin		
		A2 Tropocollagen		
		A3 Elastin		
		A4 Actin		
Ohiect	tive Question			
54	54	Pungency of onion is due to the presence of following compounds:	4.0	1.00
		A1 Capsaicin		

		A2 : Diallyl sulphide		
		: Diallyl sulphide		
		A3 : Isothiocyanate		
		A4 Allyl propylene disulphide		
	tive Question			1.00
55	55	Which of the following has richest lysine amino acid residue?	4.0	1.00
		A1 Albumin		
		A2 : Globulin		
		A3 Gliadin		
		A4		
		A4 Prolamin :		
Objec	tive Question			
56	56	The surface coatings for mango fruit mainly contains	4.0	1.00
		A1 Bee wax		
		A2 Paraffin		
		A3 Carnauba wax		
		A4 Petroleum wax :		
Objec	tive Question			
57	57	Obesity can be measured by	4.0	1.00
		A1 BMR		
		A2 BMI		
		A3 Chest circumference		
		A4 MUAC		
Obia	tive Question			

	Al Viscosity		
	A2 Elasticity		
	A3 Solubility		
	A4 Foaming		

Julie Questi	011		
59 59	The aleurone granules are rich in amino acids.	4.0	1.00
	A1 Acidic		
	A2 Basic		
	A3 Neutral		
	A4 : Non-essential		
bjective Questi	on		
0 60	The germinated sorghum rootlets and sprout consumption is harmful to health due to the presence of:	4.0	1.00
	A1 Dhurrin		
	A2 : Cyanogenic glycosides		
	A3 Prussic acid		
	A4 All of these		
bjective Questi			
61	"Lamina propria" is a part of	4.0	1.00

61	61	"Lamina propria" is a part of	4.0	1.00
		A1 The mucosa		
		A2 : The sub-mucosa		
		A3 The muscularis externa		
		A4 The adventitia		

Objective Question

	ive Question			
62	62	"" is an example of zymogens	4.0	1.00
		(i) Pacifastin		
		(ii). Procaspases		
		(ii). Procaspases (iii). Pepsin (iv). Chymotrypsin		
		A1 (i) & (ii)		
		A2 (ii) & (iii)		
		A3 (i) & (iv)		
		$\stackrel{A4}{:}$ (ii) & (iv)		
Objecti	ive Question			
	63	Isomaltose is a disaccharide which possess	4.0	1.00
		A1 : α1-4 glycosidic linkages		
		A2		
		A2 β 1-4 glycosidic linkages		
		A3		
		$ \begin{array}{c} A3 \\ \vdots \\ \alpha 1-6 \text{ glycosidic linkages} \end{array} $		
		A4		
		$^{A4}_{:}$ α 1-3glycosidic linkages		
Objecti	ive Question			
64	64	Carob gum is extracted form of	4.0	1.00
		A1 : Guar beans		
		:		
		A2 : Cellulose		
		A3 Locust bean seeds		
		A4 Sea weeds		
	ive Question			1.05
	ive Question	Cephalins are an example of	4.0	1.00
			4.0	1.00
			4.0	1.00
		Cephalins are an example of A1 Phospholipids :	4.0	1.00
		Al Phospholipids :	4.0	1.00
		Al Phospholipids :	4.0	1.00
			4.0	1.00
		A1 Phospholipids : A2 Glycolipids	4.0	1.00
		Al Phospholipids :	4.0	1.00

		A4 Waxes :		
	tive Question			
66	66	The deficiency "Arginino succinate synthetase "is an enzyme cause	4.0	1.00
		A1 MSUD		
		A2 Citrullinemia		
		A3 Wilson's disease		
		A4 Pompe's disease		
	tive Question			
67	67	The active form of organo-sulphide produced when a garlic is exposed to cutting is known as	4.0	1.00
		A1 Alliin :		
		A2 Allicin		
		A3 Sulforaphane		
		A4 Glutathione		
Objec	tive Question			
68	68	A protein responsible for the transportation of copper	4.0	1.00
		A1 Transferrin :		
		A2 Albumin		
		A3 Hemeproteins		

Objec	tive Question	
69	69	Which among the following is not inhibiting the absorption of zinc?
		A1 Phytate
		A2 Oxalate

4.0

1.00

A3 Polyphenols

A4 Sulfur containing amino acids

Objective Question

	uve Question			
70	70	Hyperbilirubinemia may occur due to the excessive intake of	4.0	1.00
		A1 Vitamin A :		
		A2 Vitamin D		
		A3 Vitamin K		
		A4 Vitamin E :		

Objective Question

71	The "α-2 globulin vitamin D- binding protein (DBP)" from liver transfers which	4.0	1.00
	form of Vitamin D		
	A1 Lumisterol		
	A2 Tachysterol		
	A3 Calciol		
	A4 Precalciferol		

2	72	A process by which electronically excited singlet oxygen molecules are inactivated	4.0	1.00
		The process of which electromeany exerced singlet exygen increases are madel valed		
		A1 Quenching		
		A2 Chelating		
		: Cholading		
		A3 Reducing		
		: Reducing		
		A4 Scavenging		
		: Scavenging		
Dbje	ctive Question			
3	73	A calcium channel found in the sarcoplasmic reticulum is known as	4.0	1.00
		A1 Ryanodine receptor		
		:		

		A2 Store-operated channels
		A3 : L-type voltage sensitive Ca ²⁺ channels
		A4 Two-pore channels
Objec	tive Question	
74	74	Sideroblastic anaemia is characterised with

74	74	Sideroblastic anaemia is characterised with	4.0	1.00	
		A1 : Low level of serum iron			
		A2 : Low level of serum vitamin B12			
		A3 : High level of serum iron			
		A4 : High level of serum vitamin B12			

Objec	live Question			
75	75	Prolamine is soluble in	4.0	1.00
		A1 : alcohol		
		A2 : water		
		A3 acid solution		
		A4 : salt solutions		

76	76	A nitrogen containing non-protein component "carnosine" is synthesized from	4.0	1.00
		Al Cysteine, glycine, and glutamate		
		A2 : :		
		A3 Serine		
		A4 Histidine and β alanine		
Obje	ctive Question			
77	77	The limiting amino acids of the legume is/are i. Methionine,	4.0	1.00

		ii. Lysine, iii. Threonine,		
		iv. Tryptophan		
		A2 ii only		
		A3 i only		
		A4 : ii, iii & iv		
Objec	tive Question			
78	78	Which type of resistant starch is also known as functional fibers	4.0	1.00
		$\stackrel{A1}{:} RS_1 \& RS_2$		
		$\stackrel{A2}{:} RS_3 \& RS_4$		
		$\stackrel{A3}{:} RS_1 \& RS_3$		
		$\stackrel{A4}{:} RS_2 \& RS_4$		
Objec	tive Question			
79	79	Deficiency of Riboflavin (B2) causes	4.0	1.00
		Al Beriberi		
		A2 Pellagra		
		A3 Dermatitis		
		A4 Cheilosis		
Objec	tive Question			
30	80	Kyphosis is caused by Deficiency	4.0	1.00
		A1 Vitamin C		
		A2 Vitamin D		
		A3 Vitamin A		
		A4 Vitamin b		

				11
bject	ive Question			
	81	Statement 1: During de-hulling of rice, shearing action is used. Statement 2: During milling of rice, the rice kernel is subjected to rubbing action.	4.0	1.00
		Al True, False		
		A2 True, True		
		A3 False, False		
		A4 False, True		
biect	ive Question			
	82	The Queen of spices is	4.0	1.00
		A1 Cardamom		
		A2 Pepper		
		A3 Ginger		
		A4 Chilly		
bject	ive Question			
3	83	Statement 1: Black pepper is obtained from ripened berries by removing the pulp. Statement 2: White pepper is obtained by plucking a few cherries which have turned orange/ red, are spread on the floor and are separated by trampling.	4.0	1.00
		Al True, False		
		A2 True, True		
		A3 : False, False		
		A4 : False, True		
biect	ive Question			
	84	The amino acid deficient in groundnut is	4.0	1.00
		Al Serine		
		A2 Valine		

	A3 Lysine		
	A4 Leucine		
bjective Question			
5 85	Oxidation of to orthoquinones happen in enzymatic browning.	4.0	1.00
	ondanton of to of an quantonics and per in emphasize of owning.		
	A1 Cresols		
	A2 Tyrosine		
	A3 Caffeic acids		
	A4 Phenols :		
Dijective Question			
6 86	Coriander seeds are rich in	4.0	1.00
	Al Allin		
	A2 Sinigin :		
	A3 Eugenol		
	A4 Thalides		
Dejective Question			
7 87	Absorption of is decreased by the presence of phytates in cereals.	4.0	1.00
	A1 Calcium		
	A2 Phosphorus		
	A3 Iron		
	A4 Copper		
bjective Question			
3 88	molecules of globulins are attached to haem in haemoglobin.	4.0	1.00
	A2 2		

	1			
		A3 3		
		A4 1 :		
Objec	tive Question			
89	89	When chlorophyll is treated with sodium bicarbonate is formed	4.0	1.00
		A1 Pheophytin A :		
		A2 Pheophytin B		
		A3 Chlorophyllin		
		A4 Phytin		
	ctive Question			1
90	90	Curing of meat is done with	4.0	1.00
		A1 Carbonates and nitrates		
		A2 Nitrates and sulphates		
		A3 Chlorides and nitrates		
		Chiorides and initiales		
		A4 Sulphates		
		Suprates		
Obied	tive Question			
91	91	The chief flavour constituent present in are D- Carvone and D-Limonene	4.0	1.00
		A1 Cardamom		
		A2 Caraway Seeds		
		A3 Cumin seeds		
		A4 Bay leaves		
Objec 92	tive Question		4.0	1.00
72	92	is a component of cell membrane	4.0	1.00
		A1 : Triglyceride		

		A2 Cholesterol		
		A3 Butyric acid		
		A4 Phospholipid		
bie	ctive Question			
3	93	The degreased liquid from cooked meat or vegetable is known as	4.0	1.00
		A1 Disques :		
		A2 Consomme		
		A3 gelatin		
		A4 Stock		
	ctive Question			
94	94	The colourless rot formed in egg is due to	4.0	1.00
		Al Mucor		
		A2 Cladosporium		
		A3 Achromobacter		
		A4 Pseudomonas :		
Obje	ctive Question			
5	95	Which of the following is a vasoconstrictor?	4.0	1.00
		Al Methionine		
		A2 Serotonin		
		A3 Tyrosine		
		A4 Tryptophan		
	ctive Question			
)bje			4.0	

	A1 Mitochondria :		
	A2 Peroxisomes		
	A3 Peroxisomes and mitochondria		
	A4 : ER, Peroxisomes and mitochondria		

Objective	

is the measure of the degree of unsaturation of lipid	4.0	1.00
A1 : Reichert Meissil number		
A2 Polenske number		
A3 Iodine number		
A4 : Saponification number		
	 A1 Reichert Meissil number A2 Polenske number A3 Iodine number 	 A1 Reichert Meissil number A2 Polenske number A3 Iodine number

Dejective Question				
98	98	Specific gravity of lipid is	4.0	1.00
		A1 0.8		
		A2 0.2		
		A3 1.0		
		A4 1.5 :		

99	99	The number of double bonds in Arachidonic acid is	4.0	1.00
		A1 4 :		
		A2 3 :		
		A3 2		
		A4 1 :		
Objec	ctive Question			

100)	100	The key enzyme in transcription is	4.0	1.00
			A1 : RNA polymerase		
			A2 : DNA polymerase		
			A3 : Taq polymerase		
			^{A4} T4 DNA ligase		