

PREVIEW QUESTION BANK

Module Name : Agricultural Chemicals-ENG
Exam Date : 09-Jul-2023 Batch : 14:30-16:30

Sr. No.	Client Question ID	Question Body and Alternatives	Marks	Negative Marks
Objective Question				
1	2001	Which one of the following is not one of the features of parliamentary form of government? 1. Majority party rule 2. Collective Responsibility 3. Integrated and Independent Judiciary 4. Dissolution of the lower house A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
2	2002	Which of the following term implies that 'India is a neither a dependency nor a dominion of any other nation'? 1. Socialist 2. Sovereign 3. Secular 4. Democratic A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
3	2003	Which of the following form the maximum water composition on the earth's surface? 1. Oceans 2. Ice caps 3. Glaciers 4. Lakes A1 : 1 A2 : 2	4.0	1.00

		A3 : 3		
		A4 : 4		
Objective Question				
4	2004	Which one of the following does not fall under the category of 'biomes? 1. Forest 2. Sky 3. Desert 4. Grassland A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
5	2005	IUCN publishes information about which of the following species as Red List of threatened species? 1. Endangered Species 2. Vulnerable Species 3. Extinct Species 4. Rare Species A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
6	2006	Who was the first Indian to win an individual medal in Olympics? 1. Milkha Singh 2. Karnam Malleshwari 3. P. T. Usha 4. K. D. Jadhav A1 : 1 A2 : 2 A3 : 3	4.0	1.00

A4 : 4

Objective Question

7	2007	Who among the following reformers founded "Arya Samaj"? 1. Raja Ram Mohan Roy 2. Swami Dayananda Saraswati 3. Atmaram Pandurang 4. Ishwarchandra Vidyasagar A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

8	2008	What does "Triratna" mean in Buddhism? 1. Tripitaka 2. Buddha, Dhamma (dharma), Sangha 3. Satya, Ahimsa, Karuna 4. Sheel, Samadhi, Sangha A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

9	2009	Who started the Indian Reforms Association? 1. Narayan Guru 2. Swami Vivekananda 3. Krishna swami Aiyar 4. Keshav Chandra Sen A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

10	2010	Consider the following statements (A). UN General Assembly has declared 2023 as the international year of millets (B). Odisha govt. ropes in FICCI to promote millets globally (C). Odisha Millets Mission is a flagship programme of the Odisha government to revive millets in farms and on plates Choose the correct answer from the options given below: 1. (A) and (B) only. 2. (B) and (C) only. 3. (A) and (C) only. 4. (A), (B) and (C). A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

11	2011	Phomopsis blight occurs in which of the following crops? 1. Brinjal 2. Bajra 3. Sugarcane 4. Potato A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

12	2012	Endemic pests can be described as? 1. Pest occurs in a few specific area. 2. Pest occurs in same area, year after year. 3. Pest occurs frequently in current season in abundance. 4. Pest occurs in severe form. A1 : 1 A2 : 2	4.0	1.00
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		A3 : 3		
		A4 : 4		
Objective Question				
13	2013	Which country is the largest producer of raw silk? 1. Japan 2. India 3. China 4. South Korea A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
14	2014	Transfer of Ownership is the example of which utility..... 1. Time utility 2. Place utility 3. Possession utility 4. Form utility A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
15	2015	What happens to the total number of chromosomes during mitotic cell division? 1. gets doubled 2. gets halved 3. remains the same 4. divides into four A1 : 1 A2 : 2 A3 : 3	4.0	1.00

		A4 : 4		
Objective Question				
16	2016	What is the minimum forest cover to be maintained as per the National Forest Policy, 1988? 1. One-half 2. One-third 3. One-fourth 4. Two-third A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
17	2017	Who among the following is known as the "Father of Agronomy"? 1. Stephen Hales 2. Gregor Johann Mendel 3. Peter Decresenzi 4. D N Walia A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
18	2018	Which of the following plant hormones helps in shoot elongation? 1. Auxin 2. Gibberellic acid 3. Absciscic acid 4. Cytokinin A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				

19	2019	Select from the following the chemical property of soil..... 1. Colour 2. pH 3. Texture 4. Structure A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

20	2020	The process of separating quality grains from chaff is called as..... 1. Winnowing 2. Threshing 3. Harvesting 4. Tilling A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

21	161001	The people, who consume _____ on regular basis as staple food, are likely to be affected by 'goitre' caused by abnormal hormone secretion from thyroid. 1. Finger millet 2. Sorghum 3. Barnyard millet 4. Pearl millet A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

22	161002		4.0	1.00
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Which among the following crops is not grouped under sensitive to soil salinity category?

1. Chickpea
2. Pigeonpea
3. Peas
4. Field beans

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

23	161003	Which of the following nutrients is absorbed by plants without any combination with other nutrients? 1. Nitrogen 2. Phosphorus 3. Potassium 4. Sulphur A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

24	161004	The depth of soil up to which plant roots penetrate to draw water and plant nutrients is called 1. Effective soil depth 2. Effective rooting depth 3. Root length 4. Plough layer soil A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

25	161005		4.0	1.00
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Which year India celebrated as "The National Year of Millets"?

1. 2023
2. 2022
3. 2019
4. 2018

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

26	161006	The concentrations of which amino acids in the grain of the quality protein maize are nearly twice compared to the normal maize? (A). Tryptophan (B). Methionine (C). Cysteine (D). Lysine Choose the correct answer from the options given below: 1. (A), and (B) only. 2. (B) and (C) only. 3. (C) and (D) only. 4. (A) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

27	161007	Weed seeds are killed in which phase of composting? 1. Mesophilic phase 2. Second mesophilic phase 3. Thermophilic phase 4. Maturation phase A1 : 1 A2 : 2 A3 : 3	4.0	1.00
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		A4 : 4		
Objective Question				
28	161008	What is the safe limit of aflatoxins concentration in kernel of groundnut for direct consumption? 1. 9 ppb 2. 19 ppb 3. 29 ppb 4. 39 ppb A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
29	161009	Which experimental design takes care of the missing value; and ANOVA can be estimated without the use of missing plot technique? 1. RCBD 2. Strip-plot design 3. Latin square design 4. CRD A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
30	161010	Which among the following is the disadvantage of drip irrigation? 1. Soil moisture fluctuates from field capacity to different degrees of extreme dryness 2. It increases salinity hazard to plant 3. It restricts area of root growth 4. It enhances weed infestation A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

31161011

4.01.00

Match **List I** with **List II**

List I	List II
(Different ploughs)	(Use of ploughs)
(A). Tractor drawn mouldboard plough	(I). Small squares remain unploughed
(B). Animal drawn mouldboard plough	(II). Deep ploughing and inversion
(C). Disc plough	(III). Incorporation of manures, fertilizers and plant residues
(D). Indigenous plough	(IV). Cutting of creeping or spreading grass and inversion

Choose the **correct** answer from the options given below:

1. (A) - (II), (B) - (I), (C) - (IV), (D) - (III)

2. (A) - (II), (B) - (III), (C) - (IV), (D) - (I)

3. (A) - (IV), (B) - (III), (C) - (II), (D) - (I)

4. (A) - (IV), (B) - (I), (C) - (II), (D) - (III)

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

32	161012	Which crop is effectively used as an indicator plant for determining permanent wilting point of soil in the laboratory as it depletes the available soil moisture evenly and completely? 1. Sunflower 2. Sorghum 3. Maize 4. Jute A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

33	161013		4.0	1.00
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Which of the following millets contains the highest protein in the grain?

1. Foxtail millet
2. Proso millet
3. Pearl millet
4. Little millet

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

34	161014	The World's first Natural Farming and Organic Agricultural University is established in which country? 1. Australia 2. Argentina 3. India 4. France A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

35	161015	Desert soils have the characteristics of (A). They occur in arid climate (both hot and cold), occupying western part of Rajasthan, Gujarat, Haryana and Punjab and cold arid soils in Leh, Ladakh region of Jammu and Kashmir. (B). In hot dry deserts aeolian action carry sand and deposits in the direction of wind to form thick sandy surface. (C). They are heavy soils with >10% clay, and very less profile development. (D). Moderately to strongly alkaline (pH 7.9-9.0), low in organic matter, high in salts, and calcareous Choose the correct answer from the options given below: 1. (A), (B) and (D) only. 2. (A), (C) and (D) only. 3. (B), (C) and (D) only. 4. (A), (B) and (C) only. A1 : 1 A2 : 2	4.0	1.00
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		A3 : 3		
		A4 : 4		

Objective Question

36	161016	"Stability series" signifies the weatherability of the common primary minerals. It is proposed by: 1. Jenny (1941) 2. Goldich (1938) 3. Jackson et al. (1964) 4. Joffe (1949) A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

37	161017	Examples of tectosilicates in soils are: (A). Quartz (B). Cristobalite (C). Orthoclase (D). Plagioclase Choose the correct answer from the options given below: 1. (A), (B) and (C) only. 2. (A), (B), (C) and (D). 3. (A), (C) and (D) only. 4. (B), (C) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

38	161018	The size (diameter) of silt as per International Union of Soil Sciences (IUSS) is: 1. 0.002 mm 2. 2.0 mm 3. 0.02 mm 4. 0.20 mm	4.0	1.00
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		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

39	161019	(A). Humic acid (HA) is the portion of organic matter which is soluble in alkali, but insoluble in acid. (B). Humic acid (HA) is the portion of organic matter which is soluble in acid, but insoluble in alkali. (C). Fulvic acid (FA) is the portion of organic matter which is soluble in alkali and acid. (D). Humin is the portion of organic matter which is insoluble in both alkali and acid. Choose the correct answer from the options given below: 1. (A), (B) and (D) only. 2. (A), (B) and (C) only. 3. (A), (C) and (D) only. 4. (B), (C) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

40	161020	Potassium sulphate is a preferred source of K for crops like 1. Tobacco 2. Wheat 3. Rice 4. Sorghum A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

41	161021		4.0	1.00
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- (A). Because of the dominance of the kaolinite mineral, black soils exhibit swell-shrink properties.
- (B). After heavy rains, red soils are highly prone to crusting.
- (C). The kaolinite-dominant red and laterite soils contain the lowest amount of all forms of K.
- (D). Black soils are characterized by high clay content and consequently, high available water holding capacity.

Choose the **correct** answer from the options given below:

1. (A), (B) and (D) only.
2. (A), (C) and (D) only.
3. (A), (B), (C) and (D).
4. (B), (C) and (D) only.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

42	161022	If a soil solution is concentrated four times, then the activity ratio of potassium (K)-calcium (Ca) in solution will 1. Increase eight times 2. Decrease two times 3. Increase two times 4. Decrease four times A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

43	161023	(A). Exchangeable acidity in soil is the acidity associated with exchangeable Al^{3+} and H^+ ions, which can be replaced in a strongly acid soil by an unbuffered salt solution, such as KCl or NaCl. (B). Active acidity in soil is the activity of hydrogen (H^+) ions in the soil solution which is measured and expressed as pH value. (C). Residual/reserve acidity is associated with H^+ and Al^{3+} ions that are bound in non-exchangeable form by clay and organic matter in soils. (D). Total acidity is the sum of exchangeable acidity plus residual acidity in a soil. Choose the correct answer from the options given below: 1. (A), (B) and (D) only. 2. (A), (B) and (C) only. 3. (B), (C) and (D) only. 4. (A), (B), (C) and (D).	4.0	1.00
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		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
44	161024	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : Dehydrogenase activity reflects the total range of the oxidative activity of soil micro-organisms and may be considered a good indicator of the oxidative metabolism in soils. Reason (R) : Dehydrogenase oxidize soil organic matter by transferring protons and electrons from organic substrates to inorganic acceptors. In light of the above statements, choose the <i>correct</i> answer from the options given below. - Both (A) and (R) are true and (R) is the correct explanation of (A). - Both (A) and (R) are true but (R) is NOT the correct explanation of (A). (A) is true but (R) is false. (A) is false but (R) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
45	161025	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : The concepts of quantity (Q), intensity (I) and buffering capacity (Q/I) are useful in describing and measuring the potassium (K) supplying power of soils. The intensity factor is a measure of K in soil solution that is immediately available for absorption by plant root. Reason (R) : The absorption of K is influenced by the activity of other cations like Ca^{2+} and Mg^{2+} in the soil solution; thus, the potassium activity ratio is used, in place of K concentration alone, to indicate the intensity factor. In light of the above statements, choose the <i>correct</i> answer from the options given below. - Both (A) and (R) are true and (R) is the correct explanation of (A). - Both (A) and (R) are true but (R) is NOT the correct explanation of (A). (A) is true but (R) is false. (A) is false but (R) is true. A1 : 1 A2 : 2 A3 : 3	4.0	1.00

A4 : 4

Objective Question

46161026

4.01.00

Match **List-I** with **List-II**

List-I	List-II
(Indicator)	(Element)
(A). Eriochrome Black T	(I). Iron
(B). Potassium Chromate	(II). Boron
(C). Orthophenanthroline	(III). Chlorine
(D). Azomethine-H	(IV). Calcium

Choose the **correct** answer from the options given below:

1. (A) - (II), (B) - (I), (C) - (IV), (D) - (III)

2. (A) - (IV), (B) - (III), (C) - (I), (D) - (II)

3. (A) - (III), (B) - (IV), (C) - (II), (D) - (I)

4. (A) - (I), (B) - (III), (C) - (II), (D) - (IV)

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

47	161027	By which regulation of Registration Committee opines that the insecticide is being introduced for the first time in India, it may, pending any enquiry, register it provisionally for a period of two years 1. Section 9(3) 2. Section 9(3B) 3. Section 9(4) 4. Section 9(4B) A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

48	161028		4.0	1.00
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		Abamectin 01.90% EC is registered in India for the purpose of controlling 1. Lepidopteran pest 2. Dipteran pest 3. Mites 4. Nematodes A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
49	161029	In Chlorantraniliprole 0.40% GR formulation, what does GR means 1. Liquid formulation 2. Suspension formulation 3. Solid formulation 4. Greasy formulation A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
50	161030	<i>Ampelomyces quisqualis</i> 2.0% WP is registered in India as biopesticide. It is recommended for the control of 1. Powdery mildew 2. Sucking pest 3. Lepidopteran pest 4. Spider mite A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
51	161031		4.0	1.00

For the analysis (detection and quantification) of thermolabile compounds which one of the following is not suitable

1. UPLC
2. LC-MS/MS
3. Spectrophotometer
4. GC-MS

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

52	161032	If Limit of detection (LOD) value of any method is 2 ppm then Limit of quantification (LOQ) value will be in the range of 1. 2-3 ppm 2. 6-7 ppm 3. 8-10 ppm 4. < 2 ppm A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

53	161033	What is most suitable for QuEChERS 1. It's a residue analysis technique 2. Sample preparation technique 3. Mass detection technique 4. Sample drawing technique A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

54	161034		4.0	1.00
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Match **List-I** with **List-II**

List-I	List-II
(Name of pesticide)	(Biological activity)
(A). Dinotefuran	(I). Acaricide
(B). Azoxystrobin	(II). Insecticide
(C). Flufenacet	(III). Herbicide
(D). Dicofol	(IV). Fungicide

Choose the **correct** answer from the options given below:

1. (A) - (II), (B) - (IV), (C) - (III), (D) - (I)
2. (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
3. (A) - (I), (B) - (II), (C) - (IV), (D) - (III)
4. (A) - (III), (B) - (IV), (C) - (I), (D) - (II)

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

55 161035

4.0 1.00

Thin Layer Chromatography (TLC) is used in the wet laboratory for the purpose of

1. Quantification of mixture
2. Detection of single compound
3. Detection of mixture
4. Quantification of single compound

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

56 161036

4.0 1.00

In which part of neem, major bioactive constituents are present

1. Leaf
2. Bark
3. Root
4. Seed

A1 : 1

		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

57	161037	Plant which is a very good indicator of boron deficiency in an area	4.0	1.00
		1. Rice 2. Cauliflower 3. Brinjal 4. Maize		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

58	161038	Liquid ammonia is used as fertiliser. What per centage of N is present in it	4.0	1.00
		1. 71 2. 65 3. 48 4. 82		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

59	161039	India's estimated water potential from surface flow is	4.0	1.00
		1. 400 Mha m 2. 180 Mha m 3. 70 Mha m 4. 300 Mha m		
		A1 : 1		
		A2 : 2		

		A3 : 3		
		A4 : 4		

Objective Question

60	161040	For Darcy's law the value of Reynolds number is 1. < 1 2. $1 - 2$ 3. $2 - 3$ 4. > 3 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

61	161041	The unit of intrinsic permeability is 1. LT^{-2} 2. LT^{-1} 3. L^2 4. L^2T A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

62	161042	Which of the following method is used to estimate time of concentration 1. CN method 2. Kirpich formula 3. Rational formula 4. Manning's formula A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question				
63	161043	The area under hyetograph represents 1. Rainfall intensity 2. Total rainfall amount 3. Flood flow 4. Runoff volume A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
64	161044	Through which of the following states the Yamuna river does not flow 1. Uttarakhand 2. Punjab 3. Haryana 4. Delhi A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
65	161045	Jal Shakti Abhiyan programme was started during the year 1. 2022 2. 2021 3. 2020 4. 2019 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
66	161046		4.0	1.00

'Bandharas' a traditional water harvesting structure is found in which of the following states

1. Rajasthan
2. Maharashtra
3. Madhya Pradesh
4. Uttar Pradesh

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

67	161047	Nearly, how much percentage of grounwater resources is used for irrigation?	4.0	1.00
		1. 62 2. 80 3. 92 4. 56		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

68	161048	What percentage of total water resources is used currently by India's agricultural sector?	4.0	1.00
		1. 70 - 75 2. 75 - 80 3. 80 - 85 4. 85 - 90		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

69	161049		4.0	1.00
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The volume of rainwater consumed by the crop is known as

1. Blue water
2. Green water
3. Grey water
4. Virtual water

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

70	161050	The GAP (Ganga Action Plan) - a project to clean up the polluted water of Ganga - plans to intercept and divert municipal sewage falling into the river from 25 large urban conglomerates in which of the followings three states? 1. UP, Haryana and Punjab 2. UP, Bihar and West Bengal 3. Himachal Pradesh, UP and Haryana 4. Odisha, Bihar and West Bengal A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

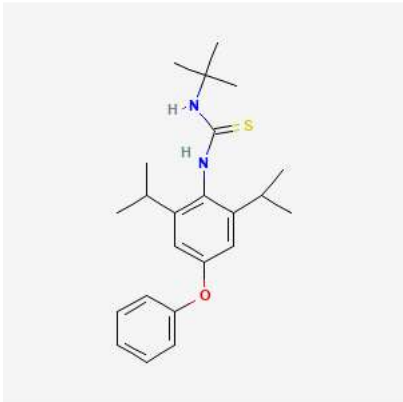
71	1003301	(A). Avermectins are 18 membered macrocyclic lactones and its homologues (B). Ivermectin is 22, 23 dihydro derivative of abamectin (C). Ivermectin is used for the control of ecto-and endo- parasites of animal (D). Abamectins are generally active against mites and selected insect pests Choose the correct answer from the options given below: 1. (A), (B) and (D) only. 2. (B), (C) and (D) only. 3. (A), (B), (C) and (D). 4. (A), (C) and (D) only. A1 : 1 A2 : 2 A3 : 3	4.0	1.00
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A4 : 4

Objective Question

72	1003302	1. Diacylhydrazide ecdysteroid agonist 2. Mimics 20-OH ecdysone 3. Trade name is "Confirm" 4. Chemical formula is $C_{22}H_{28}N_2O_2$ Which of the following compounds, is having above mentioned attributes 1. Methoxyfenozide 2. Azadirachtin 3. Nimbin 4. Tebufenozide	4.0	1.00
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

73	1003303	 The compound is used as 1. Insecticide 2. Fungicide 3. Herbicide 4. Acaricide	4.0	1.00
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

74	1003304	Chloronicotinyl insecticide with MW 222.67 and used to control aphids, white flies is 1. Imidacloprid 2. Acetamiprid 3. Thiomethoxam 4. Clothianidin A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

75	1003305	Chemically benzoylphenyl ureas are in general active to control 1. Bacteria 2. Fungi 3. Mites 4. Insects A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

76	1003306	Droplet size of pesticide ULV formulation is in the range of 1. 1-15 μ 2. 10-50 μ 3. 1-5 mm 4. 10-15 mm A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

77	1003307		4.0	1.00
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		Potters tower is used for the purpose of 1. Standard reference for estimation of nematicidal activity in the laboratory 2. Standard reference for determination of antifeedant activity in the laboratory 3. Standard reference for chemical spraying techniques in the laboratory 4. Standard reference for estimation of teratogenicity in the laboratory A1 : 1 A2 : 2 A3 : 3 A4 : 4		
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Objective Question

78	1003308	(A). Milbemycins are known to be agonists to the GABA recognition site (B). Dieldrin is a GABA antagonist (C). Avermectins are affecting Na-K channel (D). Fipronil is a GABA antagonist Choose the correct answer from the options given below: 1. (A), (B) and (D) only. 2. (A), (B) and (C) only. 3. (A), (B), (C) and (D). 4. (B), (C) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

79	1003309	(A). Atropine is an alkaloid (B). Atropine is acetylcholine antagonist (C). Atropine is extracted from <i>Atropa belladonna</i> (D). Atropine is an antidote used in OP poisoning Choose the correct answer from the options given below: 1. (A), (B) and (D) only. 2. (A), (B) and (C) only. 3. (A), (B), (C) and (D). 4. (B), (C) and (D) only. A1 : 1	4.0	1.00
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A2 : 2

A3 : 3

A4 : 4

Objective Question

80 1003310

4.0

1.00

Deguelin is found in the roots of *Derris* sp. It belongs to which of the following group

1. Terpenoids
2. Nicotinoids
3. Pyrethroides
4. Rotenones

A1 : 1

A2 : 2

A3 : 3

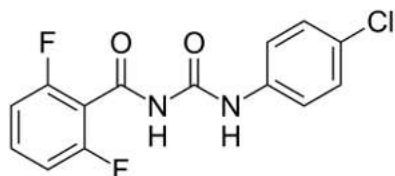
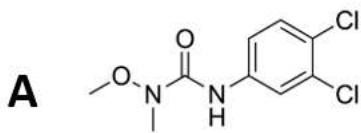
A4 : 4

Objective Question

81 1003311

4.0

1.00



Above structures are

1. A : Insecticide B: Herbicide
2. A : Fungicide B: Herbicide
3. A : Insecticide B: Fungicide
4. A : Herbicide B: Insecticide

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

82 1003312

4.0

1.00

It's a microbial biopesticide, produced by *Streptomyces* sp., "tetrahydrofuran (4)" moiety is present in the chemical structure, uncoupler of oxidative phosphorylation in mitochondria. The compound is known as

1. Milbemycin
2. Tetranactin
3. Ivermectin
4. Avermectin

A1 : 1

A2 : 2

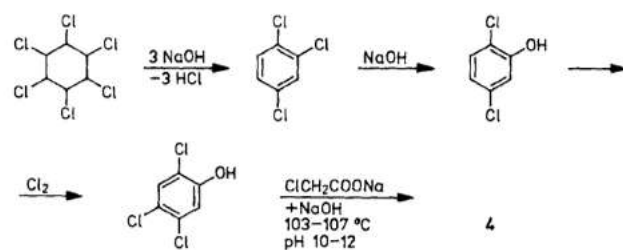
A3 : 3

A4 : 4

Objective Question

83 1003313

4.0 1.00



Compound "4" is

1. 2,4-D
2. MCPA
3. 2,4,5-T
4. Isoproturon

A1 : 1

A2 : 2

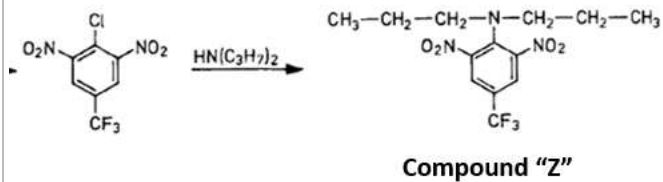
A3 : 3

A4 : 4

Objective Question

84 1003314

4.0 1.00



Compound "Z" is

1. Trifluralin
2. Oryzalin
3. Nitralin
4. Isopropalin

A1 : 1

A2 : 2

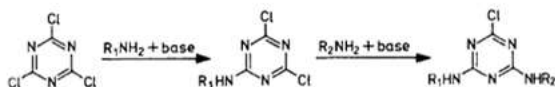
A3 : 3

A4 : 4

Objective Question

85 1003315

4.0 1.00



General synthesis of which group of pesticides

1. Diuron type herbicides
2. Lenacil type of herbicide
3. Atrazine type herbicides
4. Metsulfuron type herbicides

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

86 1003316

4.0 1.00

- (A). Colloidal particles do not settle down when left undisturbed
- (B). Colloidal particles do not visible to the naked eye
- (C). Colloidal particles ranged between 10^{-5} to 10^{-7} cm
- (D). Colloidal solution is homogeneous in nature

Choose the **correct** answer from the options given below:

1. (A), (B) and (C) only.
2. (A), (B) and (D) only.
3. (A), (B), (C) and (D).
4. (B), (C) and (D) only.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

87 1003317

Buffer solution get destroyed when

1. A weak acid is added
2. A weak base is added
3. A strong acid is added
4. A salt is added

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

88 1003318

In keto-enol form presence of which type of hydrogen is must?

1. α position
2. β position
3. γ position
4. Any position

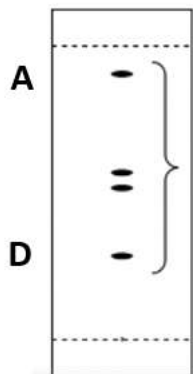
A1 : 1

A2 : 2

A3 : 3

4.0 1.00

		A4 : 4		
Objective Question				
89	1003319	Which of the following definitions of an asymmetric reaction is most accurate? 1. A reaction that creates a new chiral centre in the product 2. A reaction that involves a chiral reagent. 3. A reaction which creates a new chiral centre with selectivity for one enantiomer/diastereoisomer over another. 4. A reaction that is carried out on an asymmetric starting material A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
90	1003320	(A). Back pressure of UPLC is less than HPLC (B). Column length of UPLC is less than HPLC (C). Particle size of stationary phase is more in UPLC than HPLC (D). Throughput of UPLC is more than HPLC Choose the correct answer from the options given below: 1. (B) and (D) only. 2. (A), and (D) only. 3. (A), (B), (C) and (D). 4. (C) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
91	1003321		4.0	1.00



Mobile phase: Hexane: acetone (2:9)

Stationary phase: silica gel

Which one is more polar

1. A
2. D
3. Both are having equal polarity
4. Can't be determined

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

92 1003322

4.0 1.00

In mass spectrometry, quadrupole is

1. Four stages of ion analysis takes place
2. Four parallel rods arranged in a square formation
3. Mass fragmentation can be done upto four times
4. Not linked to any of the above

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

93 1003323

4.0 1.00

Which of the following is the most sensitive of the spectral methods

1. Absorption spectroscopy
2. Mass spectroscopy
3. Flame emission spectroscopy
4. Atomic emission spectroscopy

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

94	1003324	Signal splitting in NMR arises from	4.0	1.00
1. Shielding effect 2. Spin-spin decoupling 3. Spin-spin coupling 4. Deshielding effect				
A1 : 1				
A2 : 2				
A3 : 3				
A4 : 4				

Objective Question

95	1003325	Which of the following produces magnetic anisotropy	4.0	1.00
1. Hydrogen bonding 2. Aromatic ring system 3. Electronegativity 4. pH				
A1 : 1				
A2 : 2				
A3 : 3				
A4 : 4				

Objective Question

96	1003326		4.0	1.00
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The chemical shift region in PMR for vinylic protons is

1. 0-1.5
2. 1.5-2.5
3. 4.5-6.5
4. 9.0-12.0

A1 : 1

A2 : 2

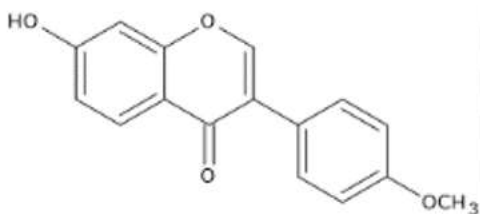
A3 : 3

A4 : 4

Objective Question

97 1003327

4.0 1.00



Above structures is the general structure of which of the following group of compounds

1. Flavone
2. Flavonol
3. Anthocyanidin
4. Isoflavone

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

98 1003328

4.0 1.00

The dietary source of ellagic acid is

1. Tomato
2. Cucumber
3. Carrot
4. Pomegranate

A1 : 1

A2 : 2

A3 : 3

		A4 : 4		
Objective Question				
99	1003329	What is phytoalexin? 1. Substance that is produced by plant tissues in response to contact with a parasite and specifically inhibits the growth of that plant. 2. Substance that is produced by plant tissues in response to contact with a parasite and specifically promotes the growth of that parasite. 3. Substance that is produced by plant tissues in response to contact with a parasite and specifically inhibits the growth of that parasite. 4. Substance that is produced by microbial tissues in response to contact with a parasite and specifically inhibits the growth of that parasite. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
100	1003330	Why carbamates are better nematicide than OP compounds? 1. Partition coefficient (Q) is more for carbamates than OP; Q is 150 for carbamates and 10 for OP 2. Partition coefficient (Q) is less for carbamates than OP; Q is 150 for carbamates and 10 for OP 3. Partition coefficient (Q) is more for carbamates than OP; Q is 10 for carbamates and 150 for OP 4. Partition coefficient (Q) is less for carbamates than OP; Q is 10 for carbamates and 150 for OP A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
101	1003331	In chromatographic analysis, if the LOQ value is 10 ppm, what will be the value of LOD 1. 2 ppm 2. 3 ppm 3. 4 ppm 4. 4.5 ppm A1 : 1 A2 : 2	4.0	1.00

		A3 : 3		
		A4 : 4		

Objective Question

102	I003332	Which of the following empirical equations represents the Freundlich equation(All the variables are standard in nature) 1. $x.m = k p^{1/n}$ 2. $x/m = k p^{1/n}$ 3. $m/x = k p^{1/n}$ 4. $x/m = k/p^{1/n}$ A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

103	I003333	If the sorption is due to weak van der Waals forces between adsorbate and adsorbent then the phenomenon called 1. Physisorption 2. Chemisorption 3. Desorption 4. Pseudo adsorption A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

104	I003334	"Codex alimentarius" meaning 1. Food regulation 2. Law of food 3. Food quality 4. Food code A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

105	1003335	Which of the following group of compounds are not oxime-carbamate nematicide. 1. Oxamyl and aldicarb 2. Carbofuran and carbosulfan 3. Oxamyl and benthocarb 4. Aldicarb and carbosulfan A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

106	1003336	Imazalil is a foliage fungicide with curative effect on apple scab. MoA of the fungicide is that it inhibits the biosynthesis of purin (Competitive inhibitor). Precursor for the synthesis of imazalil is 1. 4-chlorophenacyl bromide 2. 2,4-dichlorophenyl bromide 3. 2-chlorophenacyl bromide 4. 2,4-dichlorophenacyl bromide A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

107	1003337	Name the fungicide whose IUPAC name is bis(4-fluorophenyl)-methyl-(1,2,4-triazol-1-ylmethyl)silane and which is used against variety of fruits and vegetable diseases 1. Hexaconazole 2. Myclobutanil 3. Tebuconazole 4. Flusilazole A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

108	1003338	"Greening effect" is observed in "QoI" fungicides. Which of the following will not show the effect 1. Picoxystrobin 2. Flutriafol 3. Fluoxastrobin 4. Kresoxim-methyl A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

109	1003339	Dimension of interchangeable glass joints says it's 24/29. It means 1. Nominal diameter of wide end is 24 mm and nominal length of engagement is 29 mm 2. Nominal diameter of narrow end is 24 mm and nominal length of engagement is 29 mm 3. Nominal diameter of wide end is 29 mm and nominal diameter of narrow end is 24 mm 4. Nominal diameter of narrow end is 24 mm and nominal length of engagement is 29 mm A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

1101003340

Match **List-I** with **List-II**

List-I	List-II
Extraction/Purification Method	Purpose
(A). Fractional distillation	(I). Purification of liquids which decompose at b.p.
(B). Hydrodistillation	(II). Extraction of essential oil
(C). Steam distillation	(III). Extraction of nicotine
(D). Vacuum distillation	(IV). Purification of solvents with close b.p.

Choose the **correct** answer from the options given below:

1. (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
2. (A) - (IV), (B) - (III), (C) - (II), (D) - (I)
3. (A) - (I), (B) - (II), (C) - (IV), (D) - (III)
4. (A) - (IV), (B) - (II), (C) - (III), (D) - (I)

4.01.00

A1 : 1

A2 : 2

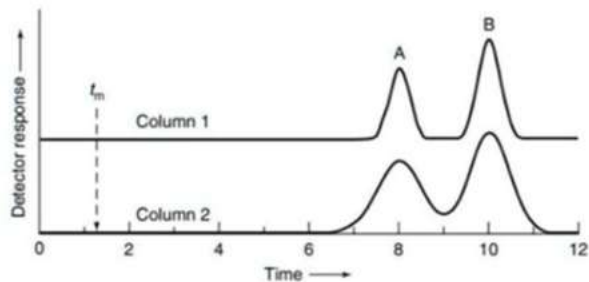
A3 : 3

A4 : 4

Objective Question

111 1003341

4.0 1.00



Column having more theoretical plates and higher resolution are

1. 2 & 1
2. 1 & 2
3. 1 & 1
4. 2 & 2

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

112 1003342

4.0 1.00

In a residue experiment, 50 g brinjal sample was fortified with 1 ml of 10 ppm pyriproxyfen. After completion of extraction and cleaning procedure, final extract was dissolved in 10 ml solvent. What should be the concentration if the extraction efficiency is almost full.

1. 10.0 ppm
2. 5.0 ppm
3. 1.0 ppm
4. 100 ppm

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

113 1003343

4.0 1.00

Insert Stem ('Insert Stem' to be deleted)

Desirable characteristics of solvent for recrystallization

(A). High solvent power for the target compound at higher temperature

(B). It must be capable of easy removal from the crystals

(C). It should dissolve impurities readily

Choose the **correct** answer from the options given below:

1. (B) and (C) only.
2. (A) and (B) only.
3. (A), (B), and (C)
4. (A) and (C) only.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

114 1003344

Acetogenins, biologically active compound, are generally found in which of the following plants

1. *Lonchocarpus* sp
2. *Millettia* sp
3. *Annona* sp
4. *Acorus*

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

115 1003345

Conjugated residues are formed during metabolism by addition of

1. Lipids
2. Amino acids
3. Sugars
4. Other secondary metabolites

A1 : 1

A2 : 2

A3 : 3

4.0 1.00

		A4 : 4		
Objective Question				
116	1003346	Which one of the following formulation pair is solution and emulsion in nature 1. EC and SC 2. SC and EW 3. EW and EC 4. EC and EW A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
117	1003347	Mode of action of dinitroaniline herbicide is 1. Inhibiting photosynthesis 2. Inhibiting cell division 3. Inhibiting ALS enzyme 4. Inhibiting plant growth A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
118	1003348	Cadinene is an example of 1. Monoterpene 2. Sesquiterpene 3. Diterpene 4. Sesterterpene A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question				
119	1003349	In FT-IR spectrum, secondary amine show how many bands 1. One 2. Two 3. Three 4. Zero A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
120	1003350	Chitosan is a biopolymer. It comprises of 1. Glucuronic acid 2. Glucose 3. Glucosamine 4. Amylose A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00