

Q.1	An example of a synthe	etic polymer is :		
	[1] Nucleic acid	[2] Starch	[3] Bakelite	[4] Protein
Q.2	All of the following are t	he examples of thermop	lastics, except :	
	[1] Phenol–formaldehyd	le resin	[2] Polythene	
	[3] Polyvinyl chloride		[4] Polystyrene	
Q.3	Orlon is formed by poly	merisation of :		
	[1] Vinyl chloride	[2] Tetrafluoroethylene	[3] Acerylonitrile	[4] Styrene
Q.4	All of the following are t	he products of condensa	tion polymerisation, exc	ept:
	[1] Bakelite		[2] Urea–formaldehyde	e resin
	[3] Nylon–6		[4] Nylon–66	
Q.5	Nylon–66 belongs to the	e following polymer famil	y:	
	[1] Polystyrene	[2] Polyolefin	[3] Polyester	[4] Polyamide
Q.6	Which of the following i	s not a copolymer ?		
	[1] Buna-S	[2] Cellulose	[3] Protein	[4] nucleic acid
Q.7	Which of the following is	s not an example of a co	ndensation polymer?	
	[1] Nylon-66	[2] Teflon	[3] Terylene	[4] Bakelite
Q.8	An example of aromation	c polymer is :	•.•	
	[1] Nylon-66	[2] Teflon	[3] polystyrene	[4] neoprene
Q.9	Caprolactam is a mono	mer of the polymer, name	ed :	
	[1] terylene	[2] nylon-66	[3] nylon-6	[4] bakelite
Q.10	The intermolecular forc	es in linear polymeric cha	ains of nylon-66 are :	
	[1] hydrogen bonds	[2] covalent bonds	[3] dative bonds	[4] ionic bonds
Q.11	During the formation of	a polymer, the simpler cl	nemical units :	
	[1] become globular	A X C	[2] join up in a circular	fashion
	[3] join up to form chain	IS	[4] undergo addition	
Q.12	Polypropylene is mainly	used in the preparation		
	[1] tyres	[2] lenses	[3] adhesives	[4] moulded articles
Q.13	Bakelite is not used in t			
	[1] electrical appliances		[2] combs and fountai	npens
	[3] gramophone records		[4] paints and varnishe	-
Q.14		addition polymers, excep		
	[1] polystyrene	[2] polythene	[3] nylon-66	[4] P.V.C.
Q.15		the following class of po	/	
	[1] Thermosetting plast		[2] Thermoplastic poly	mer
	[3] Elastomer		[4] Fibrous polymer.	
Q.16		cules can be removed o		nerisation, except :
	[1] NH ₃	[2] H ₂ O	[3] C ₂ H ₅ OH	[4] CH ₄
Q.17	0	not be used in addition p	20	 4
	[1] O ₂	[2] Lindlar's catalyst	[3] (C ₆ H ₅ COO) ₂	$[4] R_3 AI + TiCI_4$
Q.18	All of the following are b		[0] (06:5000)2	1 1 3
	[1] carbohydrate	[2] RNA	[3] DNA	[4] perspex
Q.19		hain growth polymerisat		[.] P = P =
4.10	[1] urea + formaldehyde		[2] vinyl chloride	\rightarrow P.V.C.
	[3] isoprene	\rightarrow polyisoprene	[4] propylene	\rightarrow polypropylene
	[9] ISOPIEIIE		Г-1 Ыоруны	

Q.20	What does Na in Buna-S indicate ?		
	[1] Na is present in Buna-S		e preparation of Buna-S
0.04	[3] Buna-S is a polymer of butadiene	[4] Buna-S is a polyme	r of styrene
Q.21	The non-stick layer of kitchenware contains : [1] acrilan [2] teflon	[2] deoron	[4] pulop
Q.22	All of the following are trade names of PMMA, e	[3] dacron	[4] nylon
Q.22	[1] leucite [2] perspex	[3] plexiglass	[4] glyptal
Q.23	Alkyd resin is formed by polymerisation of :		
	[1] ethylene glycol and phthalic acid	[2] glycerol and terepht	halic acid
	[3] ethylene glycol and isophthalic acid	[4] glycerol and urea.	
Q.24	The compound that react with formaldehyde to f		
	[1] nonaromatic heterocyclic	[2] aromatic heterocycl	
0.05	[3] nonaromatic homocyclic	[4] aromatic homocycli	
Q.25	Phenol and formaldehyde react in bakelite prepa	aration with the intermedia [2] m–hydroxybenzyl al	
	[1] benzyl alcohol [3] o– and p–hydroxybenzyl alcohol	[4] phenol-formaldehyd	
Q.26	Which of the following is not a natural polymer ?		e addition polymen
Q120	[1] leather [2] silk	[3] nylon	[4] wool
Q.27	Which of the following is a natural polymer?	[-]	
	[1] teflon [2] polyethylene	[3] cellulose	[4] polyvinyl chlioride
Q.28	The compound that can be used as a monomer	is:	
	[1] C ₆ H ₆ [2] CH ₃ CH ₂ OH	[3] CH ₃ CH ₂ CI	[4] C ₃ H ₆
Q.29	Polymerisation of monomeric molecules of more	e than one type is called :	
	[1] homopolymerisation	[2] chain growth polyme	
	[3] copolymerisation	[4] addition polymerisat	tion
Q.30	Neoprene is a polymer of :		
0.24	[1] isoprene [2] chloroprene	[3] propylene	[4] butadiene
Q.31	Which of the following is a synthetic rubber ?[1] Neoprene[2] Buna-S	[3] Bakelite	[4] 1 as well as 2
Q.32	Terylene is formed by condensation polymerisat		
Q.02	[1] salicylic acid [2] benzoic acid	[3] terephthalic acid	[4] phthalic acid
Q.33	Bakelite is formed from :	[0] (0) 00 1010 0010	
	[1] $C_{6}H_{5}OH + CHCl_{3}$ [2] $C_{6}H_{5}OH + CH_{2}O$	$[3] C_6 H_5 NH_2 + NH_2 CON$	$NH_{2}[4]$ HCHO + NaOH
Q.34	Which of the following is an example of a thermo	0022	2
	[1] P.V.C. [2] bakelite	[3] perspex	[4] P.V.A.
Q.35	Dacron is a :		
	[1] Polyester [2] Polyamide	[3] Both the above	[4] None
Q.36	Nylon is the copolymer of :		
	[1] Styrene + divinyl benzene	[2] Hexamethylene tetr	
0.07	[3] Hexamethylenediamine + sebasic acid	[4] Ethylene glycol + te	
Q.37	The process of formation of macromolecules by molecules is called :	y combination of few mol	nomers with the elimination of small
	[1] Condensation polymerisation	[2] Homopolymerisatior	1
	[3] Addition polymerisation	[4] Free radical polyme	
Q.38	The pair of synthetic rubber polymer is :		
	[1] Buna–S, Gutta–percha, buna–N	[2] Buna–S, neoprene,	bakelite
	[3] Neoprene, buna–S, buna–N	[4] Orlon, neoprene, gu	

Q.39	In fact orlon is :			
	[1] Nylon–66	[2] Terylene	[3] Poly (ethyl acrylate)	[4] Polyacrelonitrile
Q.40	Which of the following i	s not an addition polymer		
	[1] Bakelite	[2] P.A.N.	[3] P.V.C.	[4] Teflon
Q.41	Example of branched p	olymer is :		
	[1] P.V.C.	[2] P.A.N.	[3] L.D.P.E.	[4] Polyester
Q.42	The monomer of neopre	ene is the product of the fo	ollowing reaction :	
	[1] Acetylene + HCI	[2] Vinylacetylene + HC	Cl [3] Divinyl acetylene+H	CI[4] Ethylene + HCI
Q.43	Which of the following is	s not the addition homo p	olymer ?	
	[1] Teflon	[2] Buna–S	[3] P.V.C.	[4] P.A.N.
Q.44	Starch is the condensa	tion polymer is :		
	[1] α–Glucose	[2] β–Glucose	[3] α–Fructose	[4] β–Fructose
Q.45	Which one is not a bio	polymer?		
	[1] Protein	[2] Nucleic acid	[3] Cellulose	[4] Thiokol
Q.46	Which is not the examp	le of addition polymer?		\tilde{C}
	[1] Glyptal	[2] Polypropylene	[3] Polystyrene	[4] Polyvinyl chloride
Q.47	Buna-S is obtained wh	en 1, 3-butadiene adds to	o:	•
	[1] Acrolein	[2] Neoprene	[3] Vinylbenzene	[4] Chloroprene
Q.48	A polyamide is :			
	[1] Leather	[2] Natural rubber	[3] Nylon–66	[4] Wool
Q.49	Amide containing polyn	ner is :		
	[1] Polyethene	[2] Polystyrene	[3] Terylene	[4] Nylon
Q.50	Bakelite is made from p	henol and formaldehyde.	The initial reaction betwe	een them is the example of :
	[1] Electrophilic aromat	ic substitution	[2] Nucleophilic aromati	c substitution
	[3] Free radical raction		[4] Aldol reaction	
Q.51	Buna–S is a copoylmer	of :		
	[1] 75% Butadiene + 25	5% styrene	[2] 25% Butadiene + 75	% sytrene
	[3] 50% Butadiene + 50	0% styrene	[4] None	
Q.52	Monomers used in the	synthesis of Buna–S are	:	
	[1] Conjugated diene +	aromatic compound	[2] Cumulative diene + a	romatic compound
	[3] Separated diene + a		[4] Alkadiyne + aromatio	c compound
Q.53	$CH_2 = CH_2 \xrightarrow{O_2 / Ag} A$	$H^+/H_2O \rightarrow B$		
4.00		roup of the following poly	mers can be synthesized	
	[1] Terylene, glyptal	[2] Nylon–66, dacron	[3] Dacron, nylon–6	[4] Thiokol, buna–S
Q.54		re than one monomer is c	•••	
	[1] Co-polymer	[2] Hetero polymer	[3] Both the above	[4] None
Q.55	Which is a homopolyme		[-]	[.]
	[1] Isotactic poly (vinyl c		[2] Atactic polypropylen	e
	[3] Syndiotactic polysty		[4] All of these	-

Qus.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Ans.	3	1	3	3	4	2	2	3	3	1	3	4	4	3	2	4	2	4	1	2
Qus.	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Ans.	2	4	1	2	3	3	3	4	3	2	4	3	2	2	1	3	1	3	4	1
Qus.	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55					
Ans.	3	2	2	1	4	1	3	3	4	1	1	1	1	3	4					

Answer Key

Exercise # 2

•				
Q.1	-		methylene diamine and a	
0.2	[1] Dacron	[2] Nylon '66'	[3] Rayon	[4] Teflon
Q.2			ionomer of natural polym	1999, 2001; CBSE 1999; RPET 2000]
	[1] Neoprene	[2] Isoprene	[3] Chloroprene	[4] Butadiene
Q.3	Rayon yarns are obtain			[4] Butadiene [MP PET 2001]
Q.5	[1] Polymethylene	[2] Polyesters	[3] Cellulose	[4] Styrene
Q.4				e part is called : [MP PMT 1991, 93]
Q.7	[1] Addition polymerisat	-	[2] Copolymerisation	
	[3] Chain polymerisatio		[4] Homopolymerisatio	n
Q.5			omer in apolymerisation	
4.0	[1] CH ₃ CH ₂ Cl	[2] CH ₃ CH ₂ OH	[3] C ₆ H ₆	[4] C ₃ H ₆
Q.6	Which of the following i	0 2	$[0] \circ_{6}^{6} \circ_{6}^{6}$	[⁴] ⁰ ₃ ¹ ⁶ [MP PMET 2000, 03]
4.0				
	[h h]	Г н сн₃	[FF]	F H F]
	[1]	[2] -¢-¢-	[3]	141
Q.7	Polythene is a resin ob	tained by polymerisation	of or The monomer unit	
				[CPMT 1983; MP PMT 2002]
~ ~	[1] Butadiene	[2] Ethylene	[3] Isoprene	[4] Propylene
Q.8	Terylene is :			[BHU 2000]
		with a benzne ring in eve		
		mer with abenzene ring		
		with two carbon atoms i		\ i+
Q.9	Caprolactam is the mo		oms in every repeating ur	[DCE 2000]
Q.9	•	[2] Glyptal	[3] P.T.F.E.	[4] Melamine
Q.10	Isoprene is a monomer			083; NCERT 1980, 84; CBSE 1991]
Q.10	•		[3] PVC	[4] Natural rubber
Q.11	[1] Starch $CH_2=CH_2$ is a : [1] Monomer			[MP PMT 1986; CBSE 1991]
_	[1] Monomer	[2] Polymer	[3] Isomer	[4] Equimer
Q.12			obtained by the polymeris	
	[1] Monofluoroethene	[2] Difluroethene	[3] Trifluoroethene	[4] Tetrafluoroethene
Q.13		ibres are made of polyar	••	[CPMT 1982; UPSEAT 2001, 02]
	[1] Dacron	[2] Orlon	[3] Nylon	[4] Rayon
Q.14	Bakelite is a product of			[CBSE 1992, 95; MP PET 2003]
	[1] Formaldehyde and N		[2] Aniline and urea	
	[3] Phenol and methana		[4] Phenol and chlorofo	orm
Q.15		ving polymers will not cat		[MP PET 1994]
				$[41] (-CH_{0} - CH_{-})$
	[1] (-CF ₂ -CF ₂ -) _n	[2] (-CH ₂ -CH ₂ -) _n	[3] (–CH–CH–) _n L L CI CI	
0.46				
Q.16	Natural rubber is a :	[2] Polyamida	[3] Polyicopropo	[MP PMT 1994]
	[1] Polyester	[2] Polyamide	[3] Polyisoprene	[4] Polysaccharide

Q.17	Which is not a polyme	er :		[CPMT 1994]
	[1] lce	[2] Starch	[3] Protein	[4] Cellulose
Q.18	Acrylonitrile forms :			[BHU 1995]
	[1] Terylene	[2] Orlon	[3] PVC	[4] Bakelite
Q.19	Which of the following	is an example of conder	sation polymers :	[MP PMT 1995; BHU 2000]
	[1] Polythene	[2] PVC	[3] Orlon	[4] Terylene
Q.20	Nylon is :			[MP PMT 2001; AFMC 2003]
	[1] Polyester	[2] Polyamide	[3] Polycellulose	[4] Polypropylene
Q.21	Chloroprene is used ir	n making :		[MP PET 1997]
	[1] Synthetic rubber	[2] Plastic	[3] Petrol	[4] All of the above
Q.22	Methanal and phenol	eact in the presence of b	ease to give :	[MP PET/PMT 1998]
	[1] Bakelite	[2] Polyethylene	[3] Dcaron	[4] Nylon–66
Q.23	Which of the following	contains isoprene units		[MP PET/PMT 1998]
	[1] Natural rubber	[2] Nylon–66	[3] Polyethylene	[4] Dacron
Q.24	Which of the following	is not a synthetic polym	er:	[MP PET 1999]
	[1] Polyethylene	[2] PVC	[3] Nylon	[4] Cellophane
Q.25	What is not true about		• •	[MP PET 1999]
	[1] Polymers do not ca		[2] Polymers have higl	
	[3] Polymers scatter li	-	[4] Polymers have low	-
Q.26	-	is used in the synthesis		[MP PMT 1999; MP PET 2000]
	[1] Benzoic acid	[2] Adipic acid	[3] Phthalic acid	[4] Salicylic acid
Q.27		ation polymer of ethylene		[RPET 2000]
	[1] Benzoic acid	[2] Phthalic acid	[3] Salicylic acid	[4] Terephthalic acid
Q.28	Which one is a polyme			[CPMT 1997; Bihar MEE 1997]
	11190		[3] CH ₄	[4] PVC
	[1] SO ₂	[2] CO ₂	+	
Q.29	Which one of the follow	[2] CO ₂ wing is used to make 'no	n-stick' cookware :	[CBSE 1997; AIIMS 1998]
Q.29	Which one of the follow [1] PVC	wing is used to make 'no	n–stick' cookware : [2] Polystyrene	
	Which one of the follow [1] PVC [3] Polyethylene terepl	wing is used to make 'no	n-stick' cookware :	lene
Q.29 Q.30	Which one of the follow [1] PVC [3] Polyethylene terepl The polymer which ha	wing is used to make 'no nthalate s amide linkage is :	n–stick' cookware : [2] Polystyrene [4] Polytetrafluoroethy	lene [AFMC 1998]
Q.30	Which one of the follow [1] PVC [3] Polyethylene terepl The polymer which ha [1] Nylon–66	wing is used to make 'no nthalate s amide linkage is : [2] Terylene	n–stick' cookware : [2] Polystyrene	lene [AFMC 1998] [4] Bakelite
	Which one of the follow [1] PVC [3] Polyethylene terepl The polymer which ha [1] Nylon–66 Example of condensa	wing is used to make 'no nthalate s amide linkage is : [2] Terylene tion polymer is :	n–stick' cookware : [2] Polystyrene [4] Polytetrafluoroethy [3] Teflon	lene [AFMC 1998] [4] Bakelite [RPMT 1999]
Q.30	Which one of the follow [1] PVC [3] Polyethylene terepl The polymer which ha [1] Nylon–66 Example of condensat [1] Formaldehyde \rightarrow m	wing is used to make 'no nthalate s amide linkage is : [2] Terylene tion polymer is : neta–formaldehyde	n–stick' cookware : [2] Polystyrene [4] Polytetrafluoroethy [3] Teflon [2] Acetaldehyde → pa	lene [AFMC 1998] [4] Bakelite [RPMT 1999] ara–aldehyde
Q.30 Q.31	Which one of the follow [1] PVC [3] Polyethylene terephone The polymer which has [1] Nylon–66 Example of condensat [1] Formaldehyde \rightarrow m [3] Acetone \rightarrow mesityl	wing is used to make 'no nthalate s amide linkage is : [2] Terylene tion polymer is : neta–formaldehyde	n–stick' cookware : [2] Polystyrene [4] Polytetrafluoroethy [3] Teflon	lene [AFMC 1998] [4] Bakelite [RPMT 1999] ara–aldehyde ene
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Q.30 Q.31 Q.32	Which one of the follow [1] PVC [3] Polyethylene terept The polymer which ha [1] Nylon–66 Example of condensa [1] Formaldehyde \rightarrow m [3] Acetone \rightarrow mesityl Nylon–66 is a : [1] Natural polymer [3] Addition polymer Which polymer is form [1] Teflon Polyester fibre is :	wing is used to make 'no nthalate s amide linkage is : [2] Terylene tion polymer is : neta–formaldehyde oxide ed by chloroethene : [2] Polyethene	n–stick' cookware : [2] Polystyrene [4] Polytetrafluoroethyl [3] Teflon [2] Acetaldehyde → pa [4] Ethene → polyethe [2] Condensation polym [4] Substitution polym [3] PVC	lene [AFMC 1998] [4] Bakelite [RPMT 1999] ara-aldehyde ene [RET 1999] mer er [RPET 1999] [4] Nylon [RPET 1999]
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Q.30 Q.31 Q.32 Q.33 Q.34	Which one of the follow [1] PVC [3] Polyethylene terepton The polymer which has [1] Nylon–66 Example of condensas [1] Formaldehyde \rightarrow me [3] Acetone \rightarrow mesityle Nylon–66 is a : [1] Natural polymer [3] Addition polymer Which polymer is form [1] Teflon Polyester fibre is : [1] Rayon	wing is used to make 'no nthalate s amide linkage is : [2] Terylene tion polymer is : neta–formaldehyde oxide ed by chloroethene : [2] Polyethene	n–stick' cookware : [2] Polystyrene [4] Polytetrafluoroethyl [3] Teflon [2] Acetaldehyde → pa [4] Ethene → polyethe [2] Condensation polym [4] Substitution polym [3] PVC	lene [AFMC 1998] [4] Bakelite [RPMT 1999] ara-aldehyde ene [RET 1999] mer er [RPET 1999] [4] Nylon [RPET 1999]
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Q.30 Q.31 Q.32 Q.33 Q.34 Q.35	Which one of the follow [1] PVC [3] Polyethylene terepton The polymer which have [1] Nylon–66 Example of condensate [1] Formaldehyde \rightarrow me [3] Acetone \rightarrow mesityle Nylon–66 is a : [1] Natural polymer [3] Addition polymer Which polymer is form [1] Teflon Polyester fibre is : [1] Rayon Ebonite is : [1] Polropene	wing is used to make 'no hthalate s amide linkage is : [2] Terylene tion polymer is : heta–formaldehyde oxide ed by chloroethene : [2] Polyethene [2] Terrylene [2] Natural rubber	n–stick' cookware : [2] Polystyrene [4] Polytetrafluoroethyl [3] Teflon [2] Acetaldehyde → pa [4] Ethene → polyethe [2] Condensation polym [4] Substitution polym [3] PVC [3] Nylon–6	lene [AFMC 1998] [4] Bakelite [RPMT 1999] ara–aldehyde ene [RET 1999] mer er [RET 1999] [4] Nylon [RPET 1999] [4] Nylon–66 [CBSE 2000] [4] Highly vulcanized rubber

Q37	Which of the following p	olymer is an example of f	fibre :	[A]	AIIMS 2000]
	[1] Silk	[2] Dacron	[3] Nylon–66	[4] All of these	
Q.38	Characteristic property	of teflon is :		[F	RPET 2000]
	[1] 2000 poise viscosity		[2] High surface tension		
	[3] Non-inflammable ar	nd resistant to heat	[4] Highly reactive		
Q.39	Which of the following is	s not a polymer :		[MP	PET 2001]
	[1] Silk	[2] DNA	[3] DDT	[4] Starch	
Q.40	Which of the following s	tatement is correct regard	ding the drawbacks of rav	v rubber : [A	IIMS 2001]
	[1] It is plastic in nature		[2] It has little durability		
	[3] It has large water-at	osorption capacity	[4] All of these		
Q.41	Phenol is used in manu	facture of :			RPMT 2002]
	[1] Nylon	[2] Polystyrene	[3] Bakelite	[4] PVC	
Q.42	Nylone 66 is :			[F	RPMT 2002]
	[1] Polyamide	[2] Polyester	[3] Polystyrene	[4] Polyvinyl	
Q.43	Isoprene is a valuable s	ubstance for making :		[MP	PET 2002]
	[1] Propene	[2] Liquid fuel	[3] Synthetic rubber	[4] Petrol	
Q.44	Cellulose is a polymer of	of :			CBSE 2002]
	[1] Fructose	[2] Ribose	[3] Glucose	[4] Sucrose	
Q.45	Nylon–6 is made from :			[MP PMT 2002;	BHU 2002]
	[1] Butadiene	[2] Chloroprene	[3] Adipic acid	[4] Caprolactum	
Q.46	Which one of the followi	ng monomers gives the p	olymer neoprene on poly	merization : [0	CBSE 2003]
				CI	
	[1] CF ₂ =CF ₂	[2] CH ₂ –CHCI	[3] CCl ₂ =CCl ₂	[4] CH ₂ =C –OH–CH ₂	
Q.47	Nylon threads are made	-		E E	IEEE 2003]
Q.7/	[1] Polyvinyl polymer	[2] Polyester polymer	[3] Polyamide polymer	-	-
Q.48	Complete hydrolysis of				IEEE 2003
Q.70	[1] D-fructose	[2] D-ribose	[3] D–glucose	[4] L–glucose	
Q.49	PVC is polymer of :		[J] D-glucose		PMT 2003]
Q.73	[1] $CH_2 = CH_2$	[2] CH ₂ =CH–Cl	[3] CH ₂ =CH–CH ₂ Cl	[4] CH ₃ –CH=CH–Cl	7 WT 2005]
Q.50		olymers contains nitroge		0	PET 2003]
Q.JU	[1] Nylon	[2] Polythene	[3] PVC	[4] Terylene	FEI 2003]
Q.51	Which of the following is				IEEE 2005]
Q.J I	[1] Nylon-66	[2] Teflon	[3] Bakelite		
Q.52		s fully fluorinated polymer		[4] Terylene	IEEE 2005]
ع.72	[1] Teflon	[2] Neoprene	[3] PVC	[4] Thiokol	
		[2] Meoblelle			

Answer Key

Qus.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Ans.	2	2	3	2	4	3	2	2	1	4	1	4	3	3	1	3	1	2	4	2
Qus.	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Ans.	1	1	1	4	4	2	4	4	4	1	3	2	3	4	4	2	4	3	3	4
Qus.	41	42	43	44	45	46	47	48	49	50	51	52								
Ans.	3	1	3	3	4	4	3	3	2	1	1	1								