BOOKLET NO.

063

P.T.O.

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO

TBC : AKG-AP(PHARMACEUTICAL CHEM.)-17

Time	Allowed : 2 Hours [Maximum Marks : 100
	INSTRUCTIONS
1.	IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU
(s = #	SHOULD CHECK THAT THIS BOOKLET DOES NOT HAVE ANY UNPRINTED OR
255	TORN OR MISSING PAGES OR ITEMS ETC. IF SO, GET IT REPLACED BY A
	COMPLETE TEST BOOKLET.
2.	You have to enter your Roll Number on the Test Booklet
	in the Box provided alongside. DO NOT write anything else
0	on the Test Booklet. This Test Booklet contains 100 items (questions). You will select the response which you
3.	want to mark on the Answer Sheet. In case you feel that there is more than one correct
	response, mark the response which you consider the best. In any case, choose ONLY ONE
	response for each item.
4.	You have to mark all your responses ONLY on the separate Answer Sheet provided. No
· ·	erasing/correction fluid is allowed.
5.	All items carry equal marks.
6.	Before you proceed to mark in the Answer Sheet the response to various items in the
	Test Booklet, you have to fill in some particulars in the Answer Sheet as per instructions
	sent to you with your Admission Certificate.
7.	After you have completed filling in all your responses on the Answer Sheet and the examination
5	has concluded, you should hand over to the Invigilator only the Answer Sheet. You are
	permitted to take away with you the Test Booklet.
8.	Sheets for rough work are appended in the Test Booklet at the end.
9.	Penalty for wrong answers : THERE WILL BE PENALTY (NEGATIVE MARKING) FOR WRONG ANSWERS
	MARKED BY A CANDIDATE IN THE OBJECTIVE TYPE QUESTION PAPERS.
¥8 34	(i) There are four alternatives for the answers to every question. For each question for which a wrong answer has been given by the candidate, one-fourth (0.25) o
2 1 1	the marks assigned to that question will be deducted as penalty.
6	(<i>ii</i>) If a candidate gives more than one answer, it will be treated as a wrong answer
	even if one of the given answer happen to be correct and there will be same penalty
	as above for that question.
1242	(iii) If a question is left blank i.e. no answer is given by the candidate, there will be
	no penalty for that question.
10.	Use and carrying of Mobile Phone and Electronic Gadget is prohibited in the Examination Hall

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- Identify the biosynthetic pathway related to the biosynthesis of ricinoleic acid :
 - (A) Shikimic acid pathway
 - (B) Acetate Mevalonate pathway
 - (C) Conessine acetate pathway
 - (D) Acetate-Malonate pathway
- The enzyme responsible for the conversion of 3-dehydroquinate to 3dehydroshikimic acid is :
 - (A) 3-Dehydroshikimic acid
 synthase
 - (B) 3-Dehydroquinate reductase
 - (C) 3-Dehydroshikimic acid dehydratase
 - (D) 3-Dehydroquinate dehydratase
- 3. The ester of caffeic acid and (-)⁻ quinic acid is known as :
 - (A) Chlorogenic acid
 - (B) Abietic acid
 - (C) Coumaric acid
 - (D) Gibberellic acid

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- 4. Identify the enzyme involved in the biosynthesis of anthocyanin :
 - (A) Dihydroflavonol 4-reductase
 - (B) Leucoanthocyanidin dioxygenase
 - (C) UDP-3-O-glucosyltransferase
 - (D) All of the above
- 5. In morphine biosynthesis, the enzyme, Salutaridine : NADPH 7oxidoreductase is responsible for the conversion of salutaridine to :
 - (A) Salutaridinone
 - (B) Codeinone
 - (C) Salutaridinol
 - (D) None of the above
- 6. Identify the non-steroidal antifertility agents :
 - (A) Ethinyl estradiol
 - (B) Mestranol
 - (C) Diethylstilbosterol
 - (D) Quinestrol

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- 7. Mifepristone, is the antifertility drug belongs to the category of
 receptor antagonist.
 (A) Oestrogen
 - (B) Androgen
 - (C) Progesterone
 - (D) None of the above

The conversion of Mevalonate to phosphomevalonic acid in Acetate-Mevalonate pathway is effected by the enzyme :

- (A) HMG CoA reductase
- (B) Phosphomevalonate kinase
- (C) Mevalonate-5-pyrophosphate

decarboxylase

(D) Mevalonate kinase

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- *'n'* electrons in UV spectroscopy is :
 - (A) The electrons present in saturated compounds
 - (B) Non-bonded electrons

9.

- (C) The electrons present in unsaturated compounds
- (D) All of the above
- 10. The source of antifungal drug Amphotericin B is :
 - (A) Penicillium glaucum
 - (B) Streptomyces aureofaciens
 - (C) Streptomyces griseus
 - (D) Streptomyces nodosus
- 11. Which antiviral agents are derivatives of natural nucleosides transformed in the base ?

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- (A) Ribavirin
- (B) Acyclovir
- (C) Amantidine
- (D) Doxuridine

8.

- 12. The anticancer drug carmustine is chemically :
 - (A) 1, 3-Bis (2-chloroethyl)-1nitrosourea
 - (B) 1, 3-Bis (2-chloromethyl)-1nitrosourea
 - (C) 1, 2-Bis (2-chloroethyl)-1nitrosourea
 - (D) 1, 2-Bis (2-chloromethyl)-1nitrosourea
- Identify the QSAR technique which is based on additivity principle :
 - (A) Hansch analysis
 - (B) Free Wilson analysis
 - (C) Simplex method
 - (D) CoMFA analysis
- 14. Rate theory of receptor was given by :
 - (A) Paton
 - (B) Gaddum
 - (C) Schild
 - (D) Arunlakshana

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- 15. The following receptor has an intrinsic ion channel :
 - (A) G-protein coupled receptor
 - (B) GABA-benzodiazepine receptor
 - (C) Opiate receptors
 - (D) Histaminergic receptor
- 16. All G protein-coupled receptors (GPCRs) contain 7 membranespanning regions with their :
 - (A) C-terminus on the cytosolic face
 and N-terminus on the
 exoplasmic face
 - (B) N-terminus on the cytosolic face and C-terminus on the exoplasmic face
 - (C) C-terminus on the exoplasmic face and N-terminus on the cytosolic face
 - (D) N-terminus on the exoplasmic face and C-terminus on the cytosolic face

intracellularly :	the following nuclei except :
	(A) ¹³ C
(A) Opioid µ receptor	(B) ¹⁹ F
(B) Prostaglandin receptor	(C) ² H
(C) Steroid receptor	(D) ³⁵ Cl
(D) Angiotensin receptor	20. The following are the advantages of
18. The xanthotoxin is chemically :	peptides as drug <i>except</i> :
	(A) High potency
(A) 7-Methoxy-9H-furo[3, 2-g] chro-	(B) High selectivity
men 6-one	(C) Low accumulation in tissues
(B) 9-Methoxy-7H-furo[3, 2-g] chro-	(D) Rapid clearance
men 7-one	21. Identify the analgesic drug derived
(C) 9-Ethoxy-7H-furo[3, 2-g] chro-	from marine source :
men-7-one	(A) Ziconotide
(D) 0 Ethows 74 func[9, 9 al above	(B) Trabectedin
(D) 9-Ethoxy-7H-furo[3, 2-g] chro-	(C) Eribulin Mesylate
men 5-one	(D) Plitidepsin
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			201 10
จก	In the most stable conformation of	24.	Order of stability of carbocation
22.	In the most stable comormation of	e a	is :
8 12	trans 1, 2-disubstituted cyclohexane,	(함 121	(A) $1^{\circ} > 2^{\circ} > 3^{\circ}$
	the position of substituent is :	с »	(B) 3° > 2° > 1°
)) 	(A) 1 avial 2 aquatorial	4	(C) $1^{\circ} > 3^{\circ} > 2^{\circ}$
2	(A) 1 axial, 2 equatorial	1. 1.	(D) $2^{\circ} > 3^{\circ} > 1^{\circ}$
	(B) 1 equatorial, 2 equatorial	25.	The stability and reactivity of
			carbanion can be determined by :
- 28	(C) 1 axial, 2 axial		(A) Inductive effect
	(D) 1 equatorial, 2 axial		(B) Hybridization
		2	(C) Extent of conjugation of anion
23.	According to Auwers Skita Rule, in		(D) All of the above
6	a pair of cis-trans decalins, the	26.	The chemical name of alkylating
	isomer has higher boiling point,		agent chlorambucil is :
25			(A) 4-{2-[Bis (4-chloroethyl) amino]
	density and refractive index.		phenyl} butanoic acid
	(A) Cis		(B) 4-{4-[Bis (2-chloromethyl)
		8	amino] phenyl} butanoic acid
	(B) Trans		(C) 4-{4-[Bis (2-chloroethyl) amino]
			phenyl} butanoic acid
	(C) Both (A) and (B)	a - 1 2	(D) 4-{4-[Bis (2-chloroethyl) amino]
	(D) None of the above	12 12 12 12 12 12 12 12 12 12 12 12 12 1	phenyl} propanoic acid
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n <u>B</u>.

- 27. The following are Class III (potassium channel blocker) antiarrhythmic agents *except* :
 - (A) Propafenone
 - (B) Timolol
 - (C) Ibutilide
 - (D) Sotalol
- 28. Identify the chemical name of antihyperlipidemic drug ezetimibe :
 - (A) (3R, 4S)-1-(4-fluorophenyl)-3 [(3S)-3-(4-fluorophenyl)-3 hydroxypropyl]-4-(4-hydroxy phenyl) azetidin-2-one
 - (B) (3S, 4R)-1-(4-fluorophenyl)-3-[(3R)-3-(4-fluorophenyl)-3hydroxypropyl]-4-(4-hydroxyphenyl) azetidin-2-one
 - (C) (3R, 4S)-1-(4-fluorophenyl)-3 [(3S)-2-(4-fluorophenyl)-3 hydroxypropyl]-3-(4-oxyphenyl)
 azetidin-2-one
 - (D) (3R, 4S)-1-(4-fluorophenyl)-2-[(3S)-3-(4-bromophenyl)-3hydroxypropyl]-4-(4-hydroxyphenyl) azetidin-2-one

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- 29. Anhydrotetracycline monooxygenase converts anhydrotetracycline to :
 - (A) 12-Dihydrotetracycline
 - (B) 12-Dehydrotetracycline
 - (C) 12-Monooxytetracycline
 - (D) 12-Anhydrotetracycline
- 30. Identify the heterocyclic ring present in the structure of psoralen :
 - (A) Furan
 - (B) Pyridine
 - (C) Pyrrole
 - (D) None of the above
- 31. Gibberellic acid is a basically a :
 - (A) Pentacyclic diterpene acid
 - (B) Pentacyclic monoterpene acid
 - (C) Tetracyclic monoterpene acid
 - (D) Tetracyclic diterpene acid
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32. Identify the g value of the reference standard 1, 1-Diphenyl-2-picryl hydrazyl (DPPH) free radical used in ESR spectroscopy :

- (A) 1.4006
- (B) 5.0036
- (C) 2.0036
- (D) 4.0006
- 33. Compounds having high lipid solubility or high water solubility having long biological half-life and not susceptible to metabolism are known as :
 - (A) Soft drugs
 - (B) Hard drugs
 - (C) Ante drugs
 - (D) Prodrugs

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- 34. The following are the diseases which are due to increase in nitric oxide levels *except* :
 - (A) Atherosclerosis
 - (B) Thrombosis
 - (C) Alzheimer's disease
 - (D) Huntington's disease
- 35. The amino acid count of neuronal nitric oxide synthase is :
 - (A) 1153
 - (B) 1203
 - (C) 1433
 - (D) 1304
- 36. Molsidnomine is the nitric oxide donor used in :
 (A) CVS disorder
 (B) ANS disorder
 - (C) CNS disorder
 - (D) All of the above

ring-contraction as : (D) All of the above TBC : AKG-AP(PHARMA. CHEM.)-17

(A) Photochemical (B) Thermal (C) Catalytic (D) Acidic

40. The following are concerted

reactions except :

(A) Cycloaddition

(B) Electrocyclic reaction

(C) Sigmatropic reaction

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(D) Perkin reaction

..... condition.

hydrogen is symmetry allowed under

39. 1, 5-Sigmatropic migration of

(A) Cycloaddition

37. The following are the reactions

catalyzed by nitrenes except :

(B) C-H insertion

(C) C-H elimination

(D) Arylnitrene ring-expansion and

38. Negative charge on oxygen with

adjacent C-C double bond is known

(A) Enolate

(B) Enamine

(C) Enol

41. Friedel-Crafts reactions won't

happen with

directors.

(A) Ortho

(B) Meta

(C) Para

(D) None of the above

42. Diazo coupling reaction is an

example of aromatic

substitution.

(A) Electrophilic

(B) Nucleophilic

(C) Pericyclic

(D) All of the above

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43. The following are the examples of

nucleophilic aromatic substitution

except :

(A) Sandmeyer reaction

(B) Gattermann reaction

(C) Smiles rearrangement

(D) Schmidt rearrangement

44. Carboxylic acids are synthesized by

..... of alcohols.

(A) Reduction

(B) Hydrolysis

(C) Oxidation

(D) None of the above

	n ^e »
5. Identify the histamine receptor that	47. Identify the adrenergic receptor
cause bronchoconstriction :	responsible for platelet activation :
a o <u>,</u> o a s	8
(A) H4	(A) α-1
(B) H3	(B) α-2
	(C) β-1
(C) H2	
	(D) β-2
(D) H1	
	48. Nicotinic acetylcholine receptors are
6. Dysfunction of dopaminergic	
a a a a a a a a a a a a a a a a a a a	also known as :
neurotransmission in the way	81 101 101 101 101 101 101 101 101 101 101
	(A) Ionotropic acetylcholine
results in :	
a a gi a a	receptors
(A) Parkinson's disease	
ана с на село село с	(B) Prototropic acetylcholine
(B) Neuroleptic malignant	receptors
	Teceptora
syndrome	(C) Matchetropic costribuline
	(C) Metabotropic acetylcholine
	receptors
(C) Tourette's syndrome	
	(D) None of the above
(D) All of the above	(D) HOME OF THE ADOVE
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49.	Hyoscyamine is isomer of	52.
a a	atropine.	
13	(A) Dextrorotatory	***************************************
	(B) Levorotatory	8
*	(C) Meso	
1 8	(D) Diastereomer	*
50.	Vindoline is precursor of :	11 12 12
	(A) Deacetoxyvindoline	
	(B) Tabersonine	18 17 11
()) 11 _2	(C) Vinblastin	
	(D) Conessine	53.
51.	The starting material for	el.
	the biosynthesis of colchicine	
) X	is :	se _n či • •
11 12	(A) (D)-Tabersonine	а Ш. м. С. м. (
11 24 - 2 2	(B) (S)-Autumnaline	ш м в е
	(C) (R)-Demethylcolcine	
- 	(D) (S)-Acetylcolchicine	2 2 2
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with :
(A) Tryptamine
(B) Phenylalanine
(C) Strictosamine
(D) Isoleucine
Quinine contains two major fusedring systems :
(A) Quinoline and quinidine
(B) Quinoline and quinuclidine

Strictosidine, the biosynthetic

precursor is formed by the

combination of secologanin

(C) Quinine and quinuclidine

(D) None of the above .

	i Vat Va
54. Abetic acid on dehydrogenation	56. Beta amyrin has asymmetric
yields :	centres.
yieus .	
(A) Fluorenone	(A) 5
(B) Dehydroabetoic acid	(B) 6
(C) Dihydroabetic acid	(C) 7
(D) Retene	(D) 8
55. Zingeberene on heating with	57. Identify the principle of separation
sulphur yields :	of paper chromatography :
(A) Cadalene	(A) Partition
(B) Rutin	(B) Adsorption
(C) Xanthatoxin	(C) Absorption
(D) Psoralen	(D) None of the above
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THO THE LEADER OF THE TARGET .	

58. Organic reaction in which an azide reacts with a carbonyl group to give an amine or amide, with expulsion of nitrogen : (A) Lossen rearrangement (B) Schmidt rearrangement (C) Favorskii rearrangement (D) Bayer-Villiger rearrangement Identify the reaction which is an 59. example of Carbocation 1, 2rearrangement : (A) Favorskii rearrangement

(B) Bayer-Villiger rearrangement

(C) Wagner-Meerwein rearrange-

(D) Benzidine rearrangement

ment

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60. Conversion of 1, 2-diols to carbonyl

compound is known as

ment

(A) Pinacol-pinacolone rearrange-

(B) Lossen rearrangement

(C) Cope rearrangement

(D) None of the above

61. In Bayer-Villiger oxidation

is often added as a buffering agent

to prevent transesterification.

(A) Potassium hydroxide

(B) Phosphoric acid

(C) Disodium phosphate

(D) None of the above

reductive amination : (A) Lithiumaluminiumhydride (B) Sodium Cyanoborohydride (C) Sodium Borohydride-Cerium (III) Chloride (D) Lithiumtrisamylborohydride In organic chemistry, the kinetic 63. product predominates when the reaction temperature is : 65.(A) High (B) Low (C) Equal to atmospheric temperature (D) None of the above TBC : AKG-AP(PHARMA. CHEM.)-17 15

62. Identify the ideal reagent used for

64.

Which of the following is *true* of any (S)-enantiomer ? (A) It is the mirror image of the corresponding (R)-enantiomer (B) It rotates plane-polarized light to the left (C) It rotates plane-polarized light to the right (D) It has the highest priority group on the left (2R, 4S)-2, 4-Dibromopentane is a .. compound. (A) Enantiomer (B) Dextro isomer (C) Meso

(D) None of the above

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(A) Acidic

(B) Basic

(C) Neutral

 (D) Temperature
 67. A reagent carrying out the function of a Synthon which cannot itself be used, often because it is too unstable is known as :

(A) Synthon intermediate

(B) 'Reactive intermediate

(C) Synthetic equivalent

(D) All of the above

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68. A generalised fragment, usually an

ion, produced by a disconnection is called as :

(A) Synthetic equivalent

(B) Reagent

(C) Target molecule

(D) Synthon

69. A linear peptide whose amino acid sequence is reversed and the α -center chirality is inverted is known as :

(A) Retro-inverso peptide

(B) Depsipeptide

(C) Psuedopeptide

(D) None of the above

70. Identify the CCR5 receptor Camptothecin acts by inhibiting : 72.antagonist used as anti-HIV drug: (A) Topoisomerase I (A) Maraviroc (B) HGPRTase (B) Indinavir (C) DNA (C) Zidovudine polymerase (D) Raltegravir 71. (Z)-2-[4-(1, 2-diphenylbut-1-enyl) phenoxy]-N, N-dimethyl-ethanamine is used in the treatment HPLC is known as : of : (A) Malaria (A) Isocratic elution (B) Hypertension (C) Antiarrhythmic (D) Gradient elution (D) Breast Cancer TBC : AKG-AP(PHARMA. CHEM.)-17 17

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dependent RNA

(D) Thymidylate synthase

73. The elution process in which gradual

increase in polarity of mobile phase

used for separation of samples in

(B) Isometric elution

(C) Gravimetric elution

74. The atropisomerism occurs in :

(A) Biphenyl compounds

(B) Allenes

(C) Spirans

(D) Decalins

75. The normal tetrahedral angle is :

(A) 106.82°

(B) 109.28°

(C) 104.67°

(D) 90.47°

76. The energy required for conversion of chair form to boat form is kcal.

(A) 15

(B) 21

(C) 18

(D) 11

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77. In Diels-Alder reaction with respect

to the dienophile the addition is

stereoselectively :

(A) Anti addition

(B) Thermal addition

(C) Syn addition

(D) Photochemical addition

78. Identify the organic reaction

involving the [3, 3]-Sigmatropic

rearrangement :

(A) Cope rearrangement

(B) Curtius rearrangement

(C) Lossen rearrangement

(D) Beckmann rearrangement

79. The reaction of hydrazobenzene with acids in Benzidine rearrangement yields :

(A) 2, 2'-diaminobiphenyl

(B) 4, 4'-dinitrobiphenyl

(C) 3, 3'-diaminobiphenyl

(D) 4, 4'-diaminobiphenyl

80. The Curtius rearrangement is a chemical reaction that invovles the rearrangement of an acyl azide

to:

(A) Azidine

(B) Isocyanate

(C) Acyl halide

(D) Alkene

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81. Which of the following constitute the Indian Parliament ?

(A) Lok Sabha, Rajya Sabha andP.M.

(B) Lok Sabha, Rajya Sabha and Parliament House

(C) Lok Sabha, Rajya Sabha and

President

(D) Lok Sabha, Rajya Sabha and

Parliamentary Minister

82. NREGA was renamed "MNREGA"

(A) 2nd October, 2009

on :

(B) 2nd October, 2006

(C) 2nd October, 2011

(D) 2nd October, 2010

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83. Who gave the name 'First War

of Independence" to 1857

Mutiny ?

(A) Dadabhai Naoroji

(B) V.D. Savarkar

(C) Gopal Krishna Gokhale

(D) Pandit J.L. Nehru

84. Which vitamin is required for in

clothing of blood ?

(A) Vitamin K

(B) Vitamin A

(C) Vitamin C

(D) Vitamin E

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85. Gandhiji first experimented

with the principle of Satyagraha

at :

(A) Champaran

(B) Khera

(C) Bardoli

(D) Dandi

86. Biodiversity day is celebrated

on :

(A) 28th February

(B) 1st June

(C) 3rd November

(D) 29th December

87. By whom the Jurisdiction of Supreme Court of India can be enlarged ?

(A) President of India

(B) Parliament by passing a

resolution

(C) Parliament by making a law

(D) President in consultation with

Chief Justice of India

88. How many recognised languages are

there in India ?

(A) 17

(B) 18

(C) 19

(D) 22

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89. The largest continent of the world is :

(A) North America

(B) Africa

(C) Europe

(D) Asia

90. The most popular festival in Tamil Nadu is :

(A) Onam

(B) Gudipadwa

(C) Swang

(D) Pongal

91. Which Kangra ruler imprisoned the minor ruler of Mandi (Ishwari Sen) at Sujanpur Tira for 12 years ?

(A) Hamir Chand

(B) Hari Chand

(C) Sansar Chand

(D) Ghamand Chand

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92.	Katasan Devi temple is in	94.	How many districts in Himachal
	district :	•	Pradesh send 5 MLAs
	(A) Solan	8. . **	each to Himachal Legislative
2	(B) Shimla		Assembly ?
z x Ka	(C) Sirmour	-	(A) 3
	(D) Kullu		(B) 4
QQ	"PEPSU" stands for :	28	(C) 5
JU.			(D) 6
14	(A) Patiala and East Punjab States		
2 1	Union	95.	Dr. Yashwant Singh Parmar was
	(B) Punjab and Patiala States	*	born on :
	Union		(A) 4th August, 1906
	(C) Phagwara and East Patiala		(B) 16th January, 1917
	States Union		(C) 12th June, 1901
# 	(D) None of the above		(D) 2nd February, 1920
m D/	C : AKG-AP(PHARMA. CHEM.)-17	22	

96. Which is the principal tributary of Sutlej river in Kinnaur district ?

(A) Nogli

(B) Baspa

(C) Chaba

(D) Andhra

97. Bilaspur remained Part 'C' state upto :

(A) June, 1954

(B) June, 1956

(C) July, 1957

(D) 1 Nov., 1966

98. What was the Vedic name of Sutlej river ?

(A) Kadambri

(B) Bipasha

(C) Shuturdu

(D) Salli

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99. Who called Baba Kanshi Ram

"Pahari Bulbul" ?

(A) Bhakshi Partap Singh

(B) Sarojini Naidu

(C) Sardar Patel

(D) Dr. Y.S. Parmar

100. Who was the first Lok Ayukta of

Himachal Pradesh ?

(A) T.V.R. Tatachari

(B) H.S. Thakur

(C) R.S. Pathak

(D) R.C. Malhotra

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