M. Sc. Bioinformatics Sem.-II (C.B.C.S.) (2013 Course) / Advanced Diploma in Bioinformatics Sem.-II (C.B.C.S.) (2013 Course) :

WINTER - 2018

		SUBJEC	T: PERL AND BIOPERL P	ROGRAMMING	
Day	:	Tuesday	W-2018-1259	Time : 02.00 PM TO 05.00	
Date	:	30/10/2018	VV -2010-1237	Max. Marks: 60	
V. B.	:				
	1)	TWO questions from each sections.			
	2)				
	3)			n in SEPARATE answer books.	
			SECTION-I		
Q.1	1)	Answer the following			
	1) 2)	What is perl? Enlist the datatypes of perl			
	3)	What is string?	es of peri		
	4)	Define: Interpola	tion		
	5)	Enlist file test ope	erators.	0	
2.2		A the fellow	wine (ANY TWO)	(10)	
Q.2	1)	Answer the following (ANY TWO) Explain with examples Operators in regular expression? (10)			
	2)	What will be the result when following operator is evaluated? 14+6*3-10/2			
	3)	What does command 'use strict' and 'use warnings' do and why should we use it?			
Q.3		Differentiate between (ANY TWO)			
	1)	C programming and perl programming			
	2)	While and do wh	le loop		
	3)	Arrays and scalar	s.		
Q.4		Write a subroutine to print following output using loop		ng loop (10)	
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		•	0		
		4	OR	on file	
		w.a.p. to copy the	content of one file into anothe	er me.	
			SECTION-II		
Q.5		Answer the follow	ving	(10)	
V.	1)	What is CGI?		,	
	2)	Use of bioperl mo			
	3)	What are access r	nodifiers?		
	4) 5)	What is POD? Define class.			
	-,		·	(10)	
Q.6	1)	Answer the following (ANY TWO) What is regular expression? Explain regular expression variables with			
	1)	example.			
	2)	What is hash? Explain its functions with example.			
	3)	Write a program to print values and keys from hash.			
Q. 7		Explain object oriented programming concept in detail. OR		n detail. (10)	
		What are perl mo	dules? Explain its use with one	e example.	
0.0		Write a chart note	e on (ANY TWO)	(10)	
Q.8	1)	Packages in perl	/ OII (IMIT X 11 O)	(10)	
	2)	Autoloads			
	3)	Complex data str	uctures.		