: I. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. 2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.)
Important Note: 1. (

classes.

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rent d		A -	1811	2
(CME	1	Fourth Semester MCA Degree Examination, July/August 202	
BAN	10 Marie Mar	A STATE OF THE PARTY OF THE PAR	Advances in Web Technologies	
	Cantone Tin	ie: 3	hrs. Max. Max. Max. Max. Max. Max. Max. Max	arks: 100
		N	ote: Answer any FIVE full questions, choosing ONE full question from each mod	dule.
			Module-1	
i	1	a.	Explain various scalar types and operators available in PHP.	(10 Marks)
200	1	b.	Explain the various looping statements in PHP. Write any PHP code to explain 'fo	r' loop.
teu as maipraeur				(10 Marks)
2			OR	
ממ	2	a.	Outline file handling in PHP.	(10 Marks)
ובק		b.	Illustrate steps to join web form with database in PHP.	(06 Marks) (04 Marks)
201		C.	Write a short note on Cookies in PHP.	(04 Maiks)
, w.			Module-2	(08 Marks)
) (=	3	a.	Illustrate with syntax any eight built-in-methods for arrays in Ruby.	(06 Marks)
0		b.	Explain codeblocks and iterators with sample code in Ruby. Summarize the following string methods i) Capitalize ii) Strip iii) Chop.	(06 Marks)
93 4		C.		,
en e	,		With a neat diagram, explain directory structure for Rails application.	(10 Marks)
MITT	4	a. b.	Illustrate the concept of classes in Ruby with an example.	(10 Marks)
Suc		υ.		
n, appeal to evaluator and for equations written eg, $42\pm 8 = 30$, will be uea	5		What is Ajax? Explain with an diagram, how it is different from tradit	tional web
or eq	3	a.	applications.	(10 Marks)
nd /		b.	With a neat diagram, explain Ajax web application model.	(10 Marks)
tor a			OR	
alua	6	a.	With an example illustrate sending data to server using methods of GET and	POST for
o cv			HTTPRequest object.	(10 Marks)
sal te		b.	List and explain Ajax principles.	(06 Marks) (04 Marks)
appe		c.	Differentiate between synchronous and Asynchronous requests.	(04 Marks)
			Module-4	(00 N# 1)
ficat	7	a.	Explain how to handle multiple XMLHTTPRequest objects in the same page.	(08 Marks) (08 Marks)
lenti		b.	Explain the pattern of predictive fetch using Ajax.	(04 Marks)
of ic		C.	18 500 037	(
ling	0	-	With example, explain pattern of periodic refresh and fall back pattern in Ajax.	(10 Marks)
evea	8	a. h	Illustrate how to implement the Ajax pattern of multistage download.	(10 Marks)
ny re		b.		
Any revealing of identificatio	Λ	•	What is Bootstrap? Explain the Bootstrap life structure with a neat diagram a	nd give an
	9	a.	example of basic HTML template using Bootstrap.	(10 Marks)
		b.	With a sample code explain Fluid Grid system and container layouts.	(10 Marks)
		٥.	OR	
	10	a.	The Destator Dutton alonger for different styles of	f Button in
			Bootstrap CSS	(10 Marks)

b. Explain the following HTML concepts with Bootstrap CSS, i) Headings ii) Emphasis

(10 Marks)

(10 Marks)