

**Krantiguru Shyamji Krishna Verma Kachchh University, Bhuj**  
**Master of Science (Computer Applications & Information Technology)**  
**Semester: VI**

<b>Paper Code:</b> CCCS621		<b>Total Credit :</b> 4 <b>Total Marks :</b> 70 <b>Time :</b> 3 Hrs
<b>Title of Paper:</b> Web Application Development using PHP		
<b>Unit</b>		
<b>Unit</b>	<b>Description</b>	<b>Weighting</b>
<b>I</b>	<p><b>Introduction</b>  Introduction to Webpage, Website, Static and Dynamic Web, Client side &amp; Server Side, Scripting  Introduction to other server side languages  Web server (IIS &amp; Apache), HTTP &amp; HTTPS protocol, FTP, ISP and its Services  Web Hosting, Virtual Host, Multi-Homing  Distributed Web Server Overview, Document Root.</p> <p><b>Introduction to PHP</b>  PHP configuration in IIS &amp; Apache Web server  Understanding of PHP.INI file, Understanding of PHP.htaccess file  PHP Variable, Static &amp; global variable, GET &amp; POST method  PHP Operator  Conditional Structure &amp; Looping Structure</p>	<b>20%</b>
<b>II</b>	<p>Array</p> <p><b>User Defined Functions:</b>  argument function, default argument, variable function, return function</p> <p><b>Variable Length Argument Function</b>  func_num_args, func_get_arg, func_get_args</p> <p><b>Variable Function</b>  Gettype, settype, isset, unset, strval, floatval, intval, print_r</p> <p><b>String Function:</b>  chr, ord, strtolower, strtoupper, strlen, ltrim, rtrim trim, substr,strcmp, strcasecmp, stripslashes, strpos, strstr, strpos, str_replace, strrev, echo, print, explode(), implode(), join(), md5(), str_split(),str_shuffle(), stripslashes(), substr_compare(), substr_count(),ucfirst(), ucwords()</p> <p><b>Math Function</b>  Abs, ceil, floor, round, fmod, min, max, pow, sqrt, rand, cos(),acos(), sin(), asin(), tan(), atan(),bindec(), decbin(), hexdec(),dechex(), is_finite(), is_infinite(),log(), base_convert(), deg2rad()</p> <p><b>Date Function</b>  Date, getdate, setdate, Checkdate, time, mktime, date_add(), date_create(), date_format(), gmdate(), localtime(), strftime(), strtotime(), strtotime(), gettimeofday(),</p> <p><b>Array Function</b>  Count, list, in_array, current,next, previous, end, each, sort,rsort, assort, arsort, array_merge, array_reverse, array_diff(), array_merge_recursive(), array_shift(), array_slice(), array_unique(), array_unshift(), array_keys(), array_key_exists(),array_push(), array_pop(), array_multisort(), array_search()</p> <p><b>Miscellaneous Function</b>  define, constant, include, require, header, die, exit</p> <p><b>File handling Function</b>  fopen, fread, fwrite, fclose,file_exists, is_readable,is_writable, fgets, fgets, file,file_get_contents, fputs, file_putcontents, ftell, fseek, rewind, copy, unlink, rename, move_upload_file</p>	<b>20%</b>
<b>III</b>	Handling form with GET & POST	

	<p>Cookies, Session, Server variable</p> <p><b>PHP GD Library</b></p> <p>PHP Regular expression</p> <p>Uploading file.</p> <p>Sending mail using mail()</p> <p>Sending mail using smtp()</p> <p><b>Working with MySQL using PhpMyAdmin</b></p> <p>PHP-MySQL Connectivity</p> <p><b>PHP-MySQL Functions</b></p> <p>mysql_connect,mysql_close,mysql_error,mysql_errno, mysql_select_db,mysql_query,mysql_fetch_array,mysql_num_Rows, mysql_affected_Rows,mysql_fetch_assoc,mysql_fetch_field ,mysql_fetch_object,mysql_fetch_row ,mysql_insert_id ,mysql_num_fields,mysql_result,mysql_tablename,mysql_list_tables, mysql_list_fields,mysql_field_type,mysql_db_name,mysql_db_query ,mysql_data_seek</p>	
<b>IV</b>	<p><b>PHP with OOPS</b></p> <p>Class, constructor, inheritance, serialize objects</p> <p>Database Handling with OOPS</p> <p><b>PHP with AJAX</b></p> <p>What is AJAX.</p> <p>How AJAX Works with PHP</p> <p>Working With Ajax as Background Process</p> <p><b>JQuery</b></p> <p>What is JQuery?</p> <p>How JQuery Works and How it is Created.</p> <p>Using JQuery with PHP</p> <p><b>Using XML and JSON</b></p> <p>Introduction to JSON</p> <p>Installation &amp; Configuration</p> <p>Resource Types</p> <p>JsonSerializable</p> <p>JSON Functions: json_decode, json_encode</p>	<b>20%</b>
<b>V</b>	<p><b>Smarty Introduction</b></p> <p>Variable:</p> <p>Variables assigned from PHP</p> <p>Variables loaded from config files</p> <p><b>Variable Modifiers:</b> capitalize, lower, upper, truncate, count_characters, count_words, date_format, nl2br, replace</p> <p><b>Built in Function:</b></p> <p>config_load, foreach, foreachelse, include, if,elseif, else, section, sectionelse</p> <p><b>Custom Functions:</b></p> <p>assign, counter, cycle, eval, fetch, html_checkboxes, html_image, html_options, html_radios, html_select_date, html_select_time, html_table</p> <p><b>Creating a PHP Based Web service.</b></p> <p>Working with SOAP</p> <p>Introduction to SOAP</p> <p>Installation &amp; Configuration</p> <p>Predefined Constants</p> <p>SOAP Client</p> <p>SOAP Server</p> <p><b>Introduction to CMS</b></p> <p>Uses and Advantages of CMS</p> <p>Wordpress [Introduction &amp;Installation]</p> <p>Joomla [Introduction &amp;Installation]</p>	<b>20%</b>
<b>Basic Text &amp; Reference Books :-</b>		
<b>1.</b>	Begging PHP 5 by Wrox.	
<b>2.</b>	Julie C. Meloni, PHP MySQL and Apache, SAMS Teach Yourself, Pearson Education.	
<b>3.</b>	Web Development using PHP – Bharat & Co. [ISBN No. : 978-93-81786-39-0]	

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I	Q.1 (A) Answer the Following. (Definitions, Blanks, Full Forms, True/False, Match the Following)	06	14
	Q.1 (B) Medium / Long Questions. (With Internal Option)	08	
II	Q.2 (A) Answer the Following. (Definitions, Blanks, Full Forms, True/False, Match the Following)	06	14
	Q.2 (B) Medium / Long Questions. (With Internal Option)	08	
III	Q.3 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.3 (B) Medium / Long Questions. (With Internal Option)	08	
IV	Q.4 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.4 (B) PHP Programs. (With Internal Option)	08	
V	Q.5 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.5 (B) PHP Programs. (With Internal Option)	08	