MODEL QUESTION PAPER - SET-2 : 2021-22
Information Technology (**THEORY**)

MM : 80   **Time : 3 Hrs.**

SOLUTION

Entire Syllabus

Q1. Fill in the blanks.
- (i)   Period
- (ii)   Events
- (iii)   Substr ()
- (iv)   Encryption
- (v)   Font-weight
- (vi)   Platform as a service
- (vii) C_2C
- (viii) Java script
- (ix)   Meta
- (x)   Backlinks

Q2. True / False
- (i)   True
- (ii)   True
- (iii)   False
- (iv)   False
- (v)   True
- (vi)   True
- (vii)   False
- (viii) False
- (ix)   False
- **(x)** False

Q3.
- (i)   (a)
- (ii)   (c)
- (iii)   (a)
- (iv)   (d)
- (v)   (b)
- (vi)   (a)
- (vii)   (c)
- (viii) (c)
- (ix)   (a)
- (x)   (c)

Q.4 Match the following
- 1.   (c)
- 2.   (a)
- 3.   (d)
- 4.   (b)

Q.5. Multiple choice question

(i)	b,c
(ii)	b,c
(iii)	a,b
(iv)	a,c
(v)	a,d
(vi)	b,d
(vii)	a,d
(viii)	a,d
(ix)	a,b
(x)	c,d

Q.6 (i) b,e,f

(ii) b,c,d

Q.7 (a) Coding :

```
<html>
<script type = "text/javascript">
var a,b,res;
a=parseInt(prompt("Enter First Number"));
b=parseInt(prompt("Enter Second Number"));
res=a+b;
document.write("<br><br>Addition is "+res);
res=a-b;
document.write ("<br><br>Substraction is "+res);
res=a*b;
document.write("<br><br>Multiplication is "+res);
res=a/b;
document.write("<br><br>Division is "+res);
</script>
</html>
Ol{float:right}
</style>
</head>
<body>
<ol>
<li>Paris</li>
<Li>London</li>
<li>India</li>
<li>Singpore</li>
</ol>
<ul>
<li>Eiffel</li>
<li>Big Beg </li>
<li>TajMahal</li>
<li>Singapore Zoo</li>
</body>
</html>
```

ALLEN

(b) **Coding:**

```
<html>
<head>
<title>
Country
</title>
<style>
ul(float:left)
```

Q.8 (a) Coding:

```
<html>
<body>
<form method = "post">
Enter a Number
<input type = "text" name="f"><br><br>
<input type="submit" name ="submit"value = "Even Odd">
</form>
</body>
</html>
<2php
If(isset($_POST['submit']))
{
$f=$_POST['f'];
If($f%2==0)
Echo "<br><br> The number is Even number";
Else
Echo "<br><br> The number is Odd number";
}
?>
```

(b) Coding

```
<html>
<body>
<form method = "post">
Enter a Number
<input type = "text name" = "f"><br><br>
<input type = "submit "name"="submit" value= "Factorial">
</form>
</body>
</html>
<?php
$fc=1;
If(isset($_POST['submit']))
{
$f=$_POST['f'];
For($i=$f;$i>=1;$i--)
{
$fc=Sfc*$i;
}
Echo "<br><br> The Factorial is". $fc;
}
?>
```

Q.9 Answer

(a)

Traditional Commerce	E-commerce
Traditional commerce focuses on the excharge of products and services through personal interactions so it manual.	E-commerce trading activities are online via the internet.
Traditional commerce is limited to business hours.	E-commerce is 24×7, it can be done anytime day and night.
Traditional commerce provides face to face interaction.	E-commerce can be termed as screen to face interaction.
Traditional commerce is limited to a particular geographical location.	E-commerce is global and has no physical limitation.
Modes of payment in traditional commerce include cash, cheques and credit cards.	In E-commerce modes of payments are bank transfer, credit card, e-wallet, mobile payment and many more.
Goods and delivery of services is instant with traditional commerce.	In E-commerce delivery of goods or services takes some time.
Traditional Commerce's scope is local.	E-commerce's scope is global.

(b) Electronic Data Interchange (EDI)

(i) EDI is the electronic interchange of business information using a standardized format.

(ii) It is a process which allows one company to send information to another company electronically rather than on paper.

(iii) Business entities conducting business electronically are called trading partners.

(iv) In EDI, two most common documents which are exchanged are purchase order and invoices.

(c) Advantages of IOT are as follows:

(i) Efficient resource utilization: If we know the functionality and the way that how each device works, we definitely increase the efficient resource utilization.

(ii) Minimize human effort: As the devices of IOT interact and communicate with each other and do lot of task for us, then they minimize the human effort.

(iii) Time saving : Time is the primary factors in automation which can be saved through IOT platform.

(iv) Enhance Data Collection: IOT devices can collect data from environment like weather, sound, pollution etc. This data then can be used to take decisions.

(v) Improve security: IOT based security system helps in increasing security.

Disadvantages of IOT are as follows:

(i) Privacy : IOT uses internet due to which personal data may get hack.

(ii) Complexity : The designing, developing, maintaining of IOT system is quite complicated.

(d) Image map in HTML 5

* An image map allows you to define hotspots on a image that acts just like a hyperlink. Image maps are of two type Client side Image Maps and server Side Image Maps.

* Tags used to define Client Side Image Maps are :

   1 <img> → It is used to insert image on the web page.

   2 <map> → It specifies name of the image used for client side image map.

   3 <area> → It defines the clickable region.

Attributes of <area> tag are :

Attribute	Description
Href	Defines the URL to which the clickable region within the image – map navigates.
Shape	It can value rect, circle or poly.
Coords	Specifies co-ordinates of the clickable regions on the image-map.
Alt	Specifies extra information about clickable area. It is the alternative text to the clickable region.

(e)

(i) SEO stands for Search Engine Optimization, which is the practice of increasing the quantity and quality of traffic to your website through organic search engine results.

(ii) Thus SEO is useful in increasing the number of visitors to a website.

(iii) There are many strategies and techniques adopted to optimize the webpage.

(iv) **Type of SEO –** There are two types of optimization:-

(v) **On-Page SEO :-** This includes Provision of good content, good keywords selection, putting keywords on correct places, giving appropriate title to every page etc.

(vi) On – Page ESO is concerned with information that is displayed to the end user, such as text, images and website navigation.

(vii) **Off-Page SEO :** It includes link building, increasing link popularity by submitting open directories, search engines, link exchange etc.

(viii) Off-Page SEO is concerned with Website-Website relationship.

(f)

(i) Social Bookmarking is a powerful tool in promoting a website.

(ii) It is very useful for off-page SEO optimization.

(iii) Bookmarks are website links that are stored for future references.

(iv) Bookmarking service allows you to save, organize and share bookmarks with other users.

(v) With social bookmarking, you can quickly create high quality backlinks.

(g) PHP is most popular and frequently used worldwide server-side scripting language. Following are some of the features of PHP.

- **Simple :** It is very simple and easy to use, as compared to other scripting languages.
- **Interpreted :** It is an interpreted language, i.e. there is no need for compilation.
- **Open Source :** Open source means you need not pay for use of PHP. You can freely download and use.
- **Platform Independent:** PHP code will be run on every platform, Linux, Unix, Mac OS X, Windows.
- **Error Reporting :** PHP have same predefined error reporting constants to generate a warning or error notice.

Together we will make a difference