

KENDRIYA VDYALAYA SANGATHAN ERNAKULAM REGION

ANSWER KEY-SET-1

SUB: INFORMATICS PRACTICES

CLASS: XII

Time: 3 Hrs

Max.Mark: 70

1.

- [A] TELNET -1 Mark
- [B] Router -1 Mark
- [C] (1) BUS topology (2) Ring / Circular topology -1 Mark
- [D] Devanagiri,Tamil,Malayalam,Gujatrati,telugu,assamese etc. -1 Mark
- [E] Free software : Freely accessible, freely used,changed,improved,copied and distributed to all. No payments required. Source code available.
Freeware : Freely available, freely used but it has stipulated time, after period of time, license fee should be paid. -each explanation 1 mark
- [F] Wired Media : It is the physical connection for connecting different devices on network. Also called Guided Media. different types cable can be used like coaxial cable, optical fibre,etc.
Wireless Media: No any physical connection between the devices on network. Also called Un-guided media. Different unguided media can be used like microwave, radiowave,satellite,Bluetooth etc. -each explanation 1 mark
- [G] ODF (Open Document Format) and Ogg Vorbis.
ODF : Open Document Format is an XML-based file format for representing electronic documents.
Ogg Vorbis: It is a new audio compression format which is open format ,developed by Xiph.org.
-each explanation 1 mark.

2.

- (a) Which property of the radio button should be set to make the radio buttons mutually exclusive?
ButtonGroup property
(1 mark for specifying the correct method)
- (b) Name one container for each of the following categories.
(i) Top level container (*JFrame or Jdialog*)
(ii) Middle level container (*Jpanel or JtabbedPane*)
(1 mark for any correct answer)
- (c) Write two examples of empty tag.
*
, <hr>, , <A>*
(Any two correct examples. ½ mark each)
- (d) What do you mean by web server?

A web server is a WWW server that stores web documents and responds to the request made by web browsers.

(1 mark for correct definition)

- (e) How many times does the following loop execute? What is the value of num after the execution?

```
int num=5;

do

{

    System.out.println("Hello world");

    num--;

}while (num>2);
```

3 times and value of num=2

(1 mark for each correct value)

- (f) Write a function in java that receives a 3 digit integer and return its middle digit.

```
private int middle(int n)

{

    int d;

    d=n%100;

    n= d/10;

    return n;

}
```

½ mark for header and ½ mark each for division by 100 and division by 10 and ½ mark for return

- (g) Difference between GET and POST methods of <FORM> tag.

GET- sends the form information to the URL specified through action attribute.

POST- sends the form information in the HTTP environment.

1 mark each for correct answer.

3.

- a) Select DISTINCT city from Supplier. (1 Mark for correct answer).
- b) ALTER TABLE ADD (1 Mark for correct answer)
- c) To find the total marks using Student table or Total students attended exam.
(1 Mark for correct answer)
- d) No. (1 Mark) For explanation 1 Mark.
- e) a) 2 (1 Mark for correct answer)
b) No output (1 Mark for correct answer)
- f) To remove the table Schema (2 Mark for explanation and example)
- g) Cardinality : 6 Degree : 14 (½ Marks for each correct answer).

4.

- (a) What is an interface?

An interface defines a protocol of behavior. The aim of interfaces in Java is to dictate common behavior among objects from diverse classes.

(1 mark for correct definition)

- (b) Given a string Object namely *month* having value as "11" stored in it. What will be the result of following code?
JOptionPane.showMessageDialog(null, "" + (month.length() + Integer.parseInt(month)));

output : 13

1 mark for correct output.

- (c) What will be the content of jTextField1 after executing the following statement?
jTextField1.setText("Informatics".substring(3));

Output: ormatics

1 mark for correct output.

- (d) Given the following for loop write equivalent while loop for the above code

```
int sz= 25;  
for(int i=0, sum=0;i<sz; i++)  
    sum=sum + 1;
```

int sz=25, i=0, sum=0;

```
while(i<sz)  
{  
    sum=sum + 1;  
}
```

2 mark for correct conversion

- (e) The following code has some error(s). Rewrite the correct code underlining all the corrections made

```
m=1;
n=0;
for (; m+n<19;++n)
    System.out.println("Hello" \n);
m= M+ 10;
```

```
int m=1;
int n=0;
for (; m+n<19;++n)
    System.out.println("Hello\n");
m= m+ 10;
```

½ mark for each error identification

- (f) What will be the contents of JTextField1 and JTextField2 after executing the following code

```
jTextField1.setText("Business".substring(3,4));
jTextField2.setText("studies".toUpperCase());
```

Output: i, STUDIES

1 mark for each correct answer.

5.

- a) Create table command / Alter table command / Drop table command (1Mark for each command)

- b) i) 9
ii) RDBMS MYSQL

iii) 1

iv) 7

(½ Mark for each correct output)

c)

a) Select Name from SPORTS where Grade1='A' OR Grade2='A';

b) Select count(*) from SPORTS Where Game1='Cricket' OR Game2='Cricket';

c) Select Name from SPORTS where Game1=Game2;

d) Select Game1,Game2 from SPORTS where Name LIKE 'A%';

(1 Mark for each correct sql statement)

e)

i) 6

ii) 7

8

9

10

iii) 10

iv) 2

2

1

1

(½ Mark for each correct output)

Que :6

[A] CREATE TABLE ITEMS(Item_code integer(5) primary key,Item_Name varchar(15) UNIQUE CostperItem decimal(5,2) NOT NULL,Qty integer(4),DateofPurchase date,Warranty integer DEFAULT 1, Operational integer(2));

[B] (1) CNORID in COSIGNOR table and CNEEID in CONSIGNEE table - primary key

CNORID in CONSIGNEE table- foreign key

(2) cardinality : 4 degree : 4 for CONSIGNOR table

cardinality : 5 degree : 5 for CONSIGNEE table

[C] (1) SELECT MIN(FARE) FROM FARES WHERE AIRLINES='Indian Airlines';

(2) SELECT FLIGHTS.FL_NO,FARE+FARE*(TAX/100) "fare"

FROM FLIGHTS,FARE

WHERE STARTING='DELHI' AND ENDING='MUMBAI';

(3) OUTPUT

FL_NO	NO_FLIGHTS	AIRLINES
IC302	8	INDIAN AIRLINES
AM501	1	JET AIRWAYS

7. (a) Give one social impact of e-learning ?

- Availability of same course to millions
- Boon for working class
- Cultural differences obstruct the true aim of e-learning.

1 mark for one point.

(b) What benefits does an e-business offer to the customers ?

- *Reduction in transaction and other costs.*
 - *Improved customer service*
- 1 mark each for one point.

(c) Mr. Das is working as a Manager in the Shivam Enterprises. He wants to create controls on a form for the following functions. Choose appropriate controls from Text field, Label, Radio Button, Check box, List, Combo Box, Button and write in the third column.

S.No.	Controls Used to:	Control
1	Enter First name, Address, Basic Salary	Text Field
2	Select Gender (M/F)	Radio button
3	Choose type of employee (Permanent / Regular)	Radio Button
4	Display the picture of the employee	Label

½ mark each for correct control