

Reg. No. : 35119136927

(Pages : 4)

J - 2954

Name : .....

Second Semester B.Voc. Degree Examination, May 2020

Software Development

MM 1131.9

MATHEMATICS - I

(2014 Admission onwards)

Time : 3 Hours

Max. Marks : 80

SECTION - A

Answer all questions. Each question carries 1 mark.

1. If  $y = e^{\log 2x}$ , what is the derivative of  $y$  with respect to  $x$ .
2. Write the  $n$ th derivative of  $e^{2x}$ .
3. Write the order and the degree of the D.E  $\left(\frac{d^2y}{dx^2}\right)^{3x} + 8\frac{dy}{dx} + 7y = \sqrt{x}$ .
4. If  $f(t) = t^3 + e^{5t}$ , then  $L[f(t)] =$  \_\_\_\_\_
5. If  $10 \equiv x \pmod{3}$ , then  $x =$  \_\_\_\_\_.
6. Give an example of a prime and a composite number.
7. If  $z = \frac{1-i}{1+i}$ , then  $|z| =$  \_\_\_\_\_.

8. Imaginary part of  $(\cos \theta - i \sin \theta)^{-5}$ .

9.  $L^{-1}\left[\frac{1}{S^2 + 2s + 1}\right] = \underline{\hspace{2cm}}$ .

10.  $\sec^2 \theta + \tanh^2 \theta = \underline{\hspace{2cm}}$ .

(10 × 1 = 10 Marks)

### SECTION – B

Answer any eight questions. Each question carries 2 marks.

11. Differentiate  $\log \sqrt{3x^2 + 2x + 4}$  with respect to  $x$ .

12. If  $y = a \cos x + b \sin gx$ ; then show that  $\frac{d^2y}{dx^2} + y = 0$ .

13. Find  $L[e^{-2t} + \sin 3t]$ .

14. Solve the differential equation  $\frac{d^2y}{dx^2} + 3\frac{dy}{dx} + 2y = 0$ .

15. Find the smallest number with 10 divisors.

16. Find the differential equation of the equation  $y = a \cos(\log x) + b \sin(\log x)$  where  $a$  and  $b$  are arbitrary constants.

17. Show that the sum of the cube roots of unity is zero.

18. Find the polar form of  $1 + i\sqrt{3}$ .

19. Compute the g.c.d of 26 and 382.

20. Separate into real and imaginary parts the expression  $\sin(\alpha + i\beta)$ .

21. What is a Fourier series?

22. Define a Linear Programming Problem.

(8 × 2 = 16 Marks)

### SECTION - C

Answer any six questions. Each question carries 4 marks.

23. If  $y = \sin^{-1} x$ , prove that  $(1 - x^2)y_{n+2} - (2n+1)xy_{n+1} - n^2y_n = 0$
24. If  $x^y = e^{x-y}$ , prove that  $\frac{dy}{dx} = \frac{\log x}{(1 + \log x)^2}$ .
25. Solve  $\frac{d^2y}{dx^2} - 8\frac{dy}{dx} + 16y = e^{4x}$ .
26. Find  $L[t \cos at]$ .
27. Find the remainder when  $2^{1000}$  is divided by 17.
28. Show that  $n^7 - n$  is divisible by 42.
29. Separate into its real and imaginary parts of the expression  $\sinh(x + iy)$ .
30. State and prove Fermat's theorem.
31. Find the Fourier series to represent,  $f(x) = x$  for  $0 < x < 2\pi$ .  
(6 × 4 = 24 Marks)

### SECTION - D

Answer any two questions. Each question carries 15 marks.

32. (a) State Wilson's theorem.
- (b) Prove that  $16! + 86 = M(323)$ .
- (c) Show that  $8^{\text{th}}$  power of any number is of the form  $17m$  or  $17m \pm 1$ .

33. (a) Factorize  $x^7 - 1$  into real factors.

(b) Solve  $x^5 + x^3 + x^2 + 1 = 0$ .

(c) Separate into its real and imaginary parts the expression  $\tan(\alpha + i\beta)$ .

34. Find the inverse Laplace transform of the following :

(a)  $\frac{S}{S^2 + 25}$

(b)  $\frac{S-1}{S^2 - 2S + 5}$

(c)  $\frac{S}{S^2 + 4S + 13}$ .

35. Given that  $f(x) = x^2$ ,  $-\pi < x < \pi$ , find the Fourier expression of  $f(x)$ . Hence

deduce that  $\frac{1}{1^2} + \frac{1}{2^2} + \frac{1}{3^2} + \frac{1}{4^2} + \dots = \frac{\pi^2}{6}$ .

(2 × 15 = 30 Marks)

Reg. No. : 25119136008

(Pages : 3)

J - 2950

Name : chelcy

Second Semester B.Voc. Degree Examination, May 2020

Software Development

VS 321

ENVIRONMENTAL STUDIES

(2014 Admission Onwards)

Time : 3 Hours

Max. Marks : 80

SECTION - A

Answer all questions.

1. What is acid rain?
2. Name any one biosphere reserves in Kerala.
3. Organic pollution in aquatic systems is measured by \_\_\_\_\_ parameter.
4. Noise measured in \_\_\_\_\_
5. Name any two non-conventional energy sources.
6. Expand EIA.
7. Endosulfan is a \_\_\_\_\_ type of pesticide.
8. Expand EMS.
9. Tundra is a biome. True or false?
10. Itai-Itai disease is caused by \_\_\_\_\_ poisoning.

(10 × 1 = 10 Marks)

P.T.



## SECTION – B

Answer any **eight** questions.

11. Discuss on tropical rainforests.
12. What is smog and how it is formed?
13. Briefly explain ozone depletion?
14. What is insitu conservation?
15. Briefly explain the significance of sacred groves.
16. Name the any two tiger reserves in Kerala.
17. Explain bioaccumulation.
18. Differentiate between endemic and exotic species.
19. Explain indoor air pollutants.
20. Give examples of secondary air pollutant.
21. Expand and explain SEIAA.
22. Explain ecotone.

(8 × 2 = 16 Marks)

## SECTION – C

Answer any **six** of the following.

23. Discuss on ecological pyramids.
24. Explain the significance of wetland ecosystems.
25. What are the different sources of water pollution?
26. Briefly explain different types of diversity.

27. Explain silent valley movement.
28. Explain hot spots of biodiversity.
29. Briefly explain the impacts of nuclear waste.
30. Comment on the causes of landside disaster.
31. Give a brief account eutrophication.

(6 × 4 = 24 Marks)

#### SECTION – D

Answer any two questions.

32. Explain the following
  - (a) Shola-grassland ecosystem
  - (b) Participatory forest management
33. Discuss on the following
  - (a) Noise pollution
  - (b) Solid waste management
34. Explain various types and sources of air pollution.
35. What is global warming? Explain its impacts.

(2 × 15 = 30 Marks)



Reg. No. : 25.1.14.13.6044

Name : Sabitha

10090

Second Semester B.Voc (Software Development)  
Degree Examination, July 2015  
VS 324 : C PROGRAMMING

Time : 3 Hours

Max. Marks : 80

I. Answer all questions (one word to maximum two sentences).

- 1) What is an array ?
- 2) Define constants and variables.
- 3) What is the function of break statement ?
- 4) Write the syntax of conditional operator.
- 5) What is the function of & and \* operators ?
- 6) What do you mean by nested loop ?
- 7) What are library functions ?
- 8) What is a pointer ?
- 9) What are the arithmetic operators used in C ?
- 10) Write the syntax of a do-while statement.

(10×1=10 Marks)

II. Short answer questions. Answer any 8 questions from the following (Not to exceed one paragraph).

- 11) What is the difference between call by value and call by reference ?
- 12) What is a multidimensional array ? How will you initialize it ?
- 13) Write a program to check whether a number is odd or even.

P.T.





- 14) What do you mean by precedence of operators ? How arithmetic operators are evaluated ?
- 15) Write the syntax of simple if statement with example.
- 16) What do you mean by modular programming ?
- 17) What do you mean by scope and lifetime of a variable ?
- 18) Write the syntax of a structure with an example.
- 19) Write notes on array of pointers.
- 20) What is a file ? What is the difference between text and binary files ?
- 21) Explain the working of a continue statement.
- 22) What are the rules for naming a variable ?

(8×2=16 Marks)

III. Short essay questions. Answer **any 6** questions from the following (Not to exceed 120 words).

- 23) Explain the basic data types in C.
- 24) Explain the syntax of switch statement with an example.
- 25) Write a program to find the sum of the digits of a number.
- 26) What is dynamic memory allocation ? Write any three memory allocation functions.
- 27) What are the relational and logical operators used in C ?
- 28) Write a program to generate 'n' Fibonacci numbers.
- 29) What is recursion ? Write a program to find the factorial of a number using recursion.
- 30) Explain the syntax of a nested if..else statement.
- 31) Write the syntax of the following :
  - a) getchar ( )
  - b) puts ( )
  - c) scanf ( )
  - d) getch ( )

(6×4=24 Marks)



IV. Long essay questions. Answer **any 2** questions from the following.

- |        |  |    |
|--------|--|----|
| 32) a) | Write a program to sort a set of numbers in ascending order. | 9  |
| b)     | What are the storage classes used in C ?                     | 6  |
| 33) a) | Explain the various input and output operations on files.    | 9  |
| b)     | Write a program to create a file.                            | 6  |
| 34) a) | Explain the different string handling functions in C.        | 10 |
| b)     | What is the difference between = and == operators ?          | 5  |
| 35) a) | Write a program to find the roots of a quadratic equation.   | 10 |
| b)     | What are pointers expressions ?                              | 5  |

(2x15=30 Marks)

Reg. No. : 35217136007.....

Name : Anila G. Alavians

Second Semester B.Voc. Degree Examination, August 2018

Software Development

MM 1131.9 : MATHEMATICS - I

(2014 Admission onwards)

Time : 3 Hours

Max. Marks : 80

## SECTION - A

Answer all questions. Each question carries 1 mark.

1. If  $y = e^{\log x}$ , what is the derivative of  $y$  w.r.t.  $x$ ?2. Write the derivative of  $\operatorname{cosech} x$  w.r.t.  $x$ .3. Write the order and the degree of the D.E  $\frac{d^2 y}{dx^2} - 8 \frac{dy}{dx} + 7y = 0$ .4. If  $f(t) = 3t^3 + 1$ , then  $L[f(t)] =$ 

5. What do you mean by greatest common divisor?

6. Define primes and composite numbers.

7. If  $z = \frac{1+i}{1-i}$ , then  $|z| =$ 8.  $(\cos \theta - i \sin \theta)^5 =$ 9.  $L^{-1} \left[ \frac{1}{s^2 + 4s + 4} \right] =$ 10.  $\cos(ix) =$ 

(10×1=10 Mar

## SECTION - B

Answer any eight questions. Each question carries 2 marks.

11. Differentiate  $\log \sqrt{9x^2 - 4}$  with respect to  $x$ .

12. If  $y = a \cos mx + b \sin mx$ ; then show that  $\frac{d^2 y}{dx^2} + m^2 y = 0$ .

13. Find :  $L [t + t^2 + t^3]$ .

14. Solve  $\frac{d^2 y}{dx^2} - 2 \frac{dy}{dx} - 3y = 0$

15. Find the smallest number with 18 divisors.

16. Find the differential equation of the equation  $y = e^x (a \cos x + b \sin x)$  where  $a$  and  $b$  are arbitrary constants.

17. Find all cube roots of 125.

18. Find the polar form of  $\sqrt{3} + i$ .

19. State the Fundamental Theorem of arithmetic.

20. Show that  $\cosh (x + iy) = \cosh x \cos y + i \sinh x \sin y$ .

21. Write any two advantages of Fourier series.

22. What is a Linear Programming Problem ?

(8×2=16 Marks)

## SECTION - C

Answer any six questions. Each question carries 4 marks.

23. If  $y = (x^2 - 1)^n$ ; prove that  $(x^2 - 1)y_{n+2} + 2xy_{n+1} - (n^2 + n)y_n = 0$ .

24. If  $x^y = y^x$  prove that  $\frac{dy}{dx} = \frac{y(x \log y - y)}{x(y \log x - x)}$



25. Solve  $\frac{d^2y}{dx^2} - 6\frac{dy}{dx} + 9y = e^{2x}$ .
26. Find the Laplace transform of  $t \sin at$ .
27. Prove that the number of primes is infinite.
28. Prove that  $n^2 - n$  is divisible by 42.
29. Separate into its real and imaginary parts of the expression  $\log(\alpha + i\beta)$ .
30. State and prove De Moivre's theorem.
31. Find the Fourier series to represent,  $f(x) = \pi - x$  for  $0 < x < 2\pi$ . (6×4=24 Marks)

## SECTION - D

Answer any two questions. Each question carries 15 marks. (2×15=30 Marks)

32. a) State Fermat's theorem.  
 b) Prove that  $18! + 1 \equiv 0 \pmod{23}$ .  
 c) If  $p$  is a prime number, then prove that  $(p-1)! + 1$  is divisible by  $p$ .
33. a) Factorize  $x^6 + 1$  into real factors.  
 b) If  $\cos(u + iv) = \cos\theta + i\sin\theta$ , then show that  $\cos 2u + \cosh 2v = 2$ .  
 c) Separate into its real and imaginary parts the expression  $\tan(\alpha + i\beta)$ .
34. Find the inverse Laplace transform of the following :
- a)  $\frac{2s-5}{9s^2-25}$
- b)  $\frac{s^2}{(s^2+4)^2}$
- c)  $\frac{s+5}{s^2-6s+13}$
35. Given that  $f(x) = x + x^2$ ,  $-\pi < x < \pi$ , find the Fourier expression of  $f(x)$  hence deduce that  $\frac{1}{1^2} + \frac{1}{2^2} + \frac{1}{3^2} + \frac{1}{4^2} + \dots = \frac{\pi^2}{6}$ .





(Pages : 3)

E - 4631

Reg. No. : 35.11.71.3600.7

Name : Anila G. Tharion

Second Semester B.Voc. Degree Examination, August 2018

Software Development

VS 323

COMPUTER NETWORK AND INTERNET APPLICATIONS

(2014 Admission Onwards)

Time : 3 Hours

Total Marks : 80

SECTION - A

Answer all questions in one or two sentences. Each question carries 1 mark.

1. Expand ISP.
2. Define protocol.
3. Expand IGMP.
4. Routers are part of the \_\_\_\_\_ layer.
5. \_\_\_\_\_ is the most common technology for searching and browsing files developed in past five years.
6. Explain firewalls.
7. The number version of the IP address can (and usually is) represented by a name or series of names called \_\_\_\_\_.
8. What is a marquee ?
9. The IP address of range 192.0.1.1 to 223.255.254.254 belongs to which class ?  
(10×1=10)
10. Expand WWW.

## SECTION - B

Answer **any eight** questions **not** exceeding a paragraph of **50** words. Each question carries **2** marks.

11. What is Ring Topology ?
12. What is logical addressing ?
13. What is TCP ? How does it work ?
14. What is the advantage of collapsing white space ?
15. What are two types of web storage in HTML 5?
16. Explain about E-mail software.
17. What is TELNET ?
18. How are datagrams recovered in TCP ?
19. What are the functions of physical layer ?
20. What is markup language ?
21. Define Dial-up access.
22. Describe about features and importance of HTML. (8x2=16 Ma

## SECTION - C

Answer **any six** questions in a page of **100** words. **Each** question carries **4** marks.

23. Explain briefly about session layer of OSI model.
24. Explain briefly about TCP header file with neat diagram.
25. What are the advantages of web technologies ?
26. Explain briefly about remote login.
27. What is global information infrastrucutre ?



28. Explain briefly about packet switching.
29. Explain briefly about virtual private network.
30. Write HTML table tag sequence that outputs the following :  
50 pcs 100 500  
10 pcs 5 50
31. Write notes on search tool.

(6x4=24 Marks)

## SECTION - D

Answer **any two** questions **not** exceeding **four** pages. **Each** question carries **15** marks.

32. Explain in detail TCP/IP protocol suite.
33. Create a Simple Web Page with HTML and design an application form.
34. Explain in detail about CGI and its work.
35. Briefly describe about search engines and its uses. Write notes on various search engines you have come across.

(2x15=30 Marks)

Qn) what do you mean by Domain Name (2)



Reg. No. : .....

(Pages : 2)

29/7/15

4833

Name : .....

**Second Semester B.Voc. (Software Development) Degree**  
**Examination, July 2015**

**VS 323 : NETWORK AND INTERNET APPLICATIONS**

Time : 3 Hours

Max. Marks : 80

I. Answer **all** questions. (One word to maximum **two** sentences)

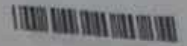
- 1) What are the uses of computer networks ?
- 2) What is an E-mail ?
- 3) What is a browser ?
- 4) What is a Dial-up Internet access ?
- 5) What do you mean by datagram ?
- 6) Expand IP.
- 7) Expand FTP.
- 8) What do you mean by domain name ?
- 9) What is a text file ?
- 10) What is the use of HTML ?

(10×1=10 Marks)

II. Short answer questions. Answer **any 8** questions from the following :

- 11) What is the uses of router ?
- 12) What do you mean by reliable transmission ?
- 13) How BBS works ?
- 14) What are www documents ?
- 15) What do you mean by packet switching ?
- 16) Give two examples of browsers.





- 17) Name two sites that help to send E-mail.
- 18) What is an URL ?
- 19) What is a browser ?
- 20) Define TELNET.
- 21) What are Binary files ?
- 22) Expand TCP/IP and ISOOSI.

(8×2=16 Marks)

III. Answer **any 6** questions.

- 23) Short note on TCP/IP reference model.
- 24) Explain packet switching.
- 25) Explain how a browser works.
- 26) Explain how CGI works.
- 27) What is a search tool ?
- 28) Explain distributed computing.
- 29) How FTP works ?
- 30) Compare LAN, WAN, MAN.
- 31) Short note on history of Internet.

(6×4=24 Marks)

IV. Long essay questions. Answer **any 2** questions from the following :

- 32) Explain briefly web page designing with HTML.
- 33) Explain functions of each layers of ISO OSI.
- 34) Explain how TCP is a reliable transmission protocol.
- 35) Write in detail on :
  - a) WWW documents.
  - b) FTP.

(2×15=30 Marks)



Reg. No. : 35118136031

Name : Helgeuba Agnani

Second Semester B.Voc. Degree Examination, May 2019

Software Development

VS 323 : COMPUTER NETWORKS AND INTERNET APPLICATIONS

(2014 Admission Onwards)

Time : 3 Hours

Max. Marks : 80

## PART - A

Answer all questions. Each question carries 1 mark :

1. What is ICMP protocol?
2. What is the use of <a> tag in html?
3. What is the use of <p> tag in html?
4. What is URL?
5. What is bandwidth?
6. What is topology?
7. What is FTP?
8. What is service point addressing?
9. What is the name given to data unit at network layer?
10. What is an Internet Service Provider?

(10 × 1 = 10)

## PART - B

Answer any eight questions. Each short question carries 2 marks.

11. What is handshake in networking?
- ✓ 12. What is mean by browsing?
13. What is point-to-point and multipoint connection?
- ✓ 14. What is e-mail?
15. How does star topology work?
16. What is Bulletin Board System (BBS)?
- ✓ 17. Explain the use of <head> tag in HTML.
- ✓ 18. What is datagram?
19. Define half duplex communication.
20. What is dialog control in session layer?
- ✓ 21. What is ARPANET?
- ✓ 22. What is Dial-up connection?

(8 × 2 = 16 Marks)

## PART - C

Answer any six questions. Each short essay carries 4 marks.

- ✓ 23. What is a LAN and how does it work?
24. How many types of IP address classes are there? Briefly explain each.
- ✓ 25. What is CGI and how does it work?

26. What is Telnet and how Telnet works?
27. What is distributed system and its advantages?
28. Compare LAN, WAN and MAN.
29. Explain how browser software works.
30. Differentiate between Flow control and Error control mechanisms.
31. What are the functions of routers and switches?

(6 × 4 = 24 Marks)

#### PART – D

Answer **any two** questions. Each long essay carries 15 marks.

32. Explain search engines and its types. Explain how do they work.
33. Explain TCP/IP Reference Model in detail.
34. What is the use of HTML in Web designing? Explain.
35. Explain seven layers of ISO-OSI reference model with diagram.

(2 × 15 = 30 Mark)

Reg. No. : 25118136034

Name : H. D. Sebastian

Second Semester B.Voc. Degree Examination, May 2019

Software Development

VS 323 : COMPUTER NETWORKS AND INTERNET APPLICATIONS

(2014 Admission Onwards)

Time : 3 Hours

Max. Marks : 80

PART - A

Answer all questions. Each question carries 1 mark :

1. What is ICMP protocol?
2. What is the use of <a> tag in html?
3. What is the use of <p> tag in html?
4. What is URL?
5. What is bandwidth?
6. What is topology?
7. What is FTP?
8. What is service point addressing?
9. What is the name given to data unit at network layer?
10. What is an Internet Service Provider?

(10 × 1 = 10 Marks)

P.T.O.

## PART – B

Answer **any eight** questions. Each short question carries 2 marks.

11. What is handshake in networking?
12. What is mean by browsing?
13. What is point-to-point and multipoint connection?
14. What is e-mail?
15. How does star topology work?
16. What is Bulletin Board System (BBS)?
17. Explain the use of <head> tag in HTML.
18. What is datagram?
19. Define half duplex communication.
20. What is dialog control in session layer?
21. What is ARPANET?
22. What is Dial-up connection?

(8 × 2 = 16 Marks)

## PART – C

Answer **any six** questions. Each short essay carries 4 marks.

23. What is a LAN and how does it work?
24. How many types of IP address classes are there? Briefly explain each.
25. What is CGI and how does it work?



26. What is Telnet and how Telnet works?
27. What is distributed system and its advantages?
28. Compare LAN, WAN and MAN.
29. Explain how browser software works.
30. Differentiate between Flow control and Error control mechanisms.
31. What are the functions of routers and switches?

(6 × 4 = 24 Marks)

#### PART – D

Answer **any two** questions. Each long essay carries 15 marks.

32. Explain search engines and its types. Explain how do they work.
33. Explain TCP/IP Reference Model in detail.
34. What is the use of HTML in Web designing? Explain.
35. Explain seven layers of ISO-OSI reference model with diagram.

(2 × 15 = 30 Marks)



Reg. No. : 35115136045

Name : Saraya Krishna T.R.

Second Semester B.Voc. (Software Development) Degree  
Examination, July 2016

## VS 323 : NETWORK AND INTERNET APPLICATIONS

Time : 3 Hours

Max. Marks : 80

I. Answer **all** questions (**one** word to maximum **two** sentences)

- 1) Define computer Networks.
- ✓ 2) What do you mean by domain names ?
- 3) Expand CGI.
- 4) What is a search engine ?
- ✓ 5) What do you mean by datagram ?
- 6) What is a newsgroup ?
- 7) What do you mean by Internet address ?
- ✓ 8) What is WWW ?
- 9) What is Router ?
- ✓ 10) Expand HTML.

(10×1=10 Marks)

II. Short answer questions. Answer **any 8** questions. (**Not** to exceed **one** paragraph)

- ✓ 11) What are the uses of computer Networks ?
- 12) What do you mean by URL ?
- ✓ 13) Discuss what is distributed computing.
- ✓ 14) What is a browser ? Give two examples for browsers.
- ✓ 15) What is CGI and where is it used ?



16) Differentiate Binary and Text file.

✓ 17) What is the use of HTML ?

✓ 18) What is E-mail address format ?

✓ 19) What is the use of FTP ?

20) What are the two types of network connections ?

✓ 21) Write two examples for search engines.

✓ 22) What do you mean by automatic retransmission ?

(8×2=16 Marks)

III. Short essay questions. Answer **any 6** questions. (Not to exceed 120 words)

✓ 23) Explain different types of network.

✓ 24) Explain how Telnet works.

✓ 25) Why TCP/IP is a reliable protocol ?

✓ 26) Write short note on mail box.

✓ 27) How does a browser works ?

✓ 28) Discuss how search engine works.

✓ 29) How does CGI work ?

✓ 30) Write short note on Datagrams.

✓ 31) Describe Bulletin Board Services.

(6×4=24 Marks)

IV. Long essay questions. Answer **any 2** questions.

✓ 32) Explain ISO OSI reference model.

✓ 33) Briefly explain FTP.

34) Explain advanced search engines.

✓ 35) Explain IP addresses.

(2×15=30 Marks)



Reg. No. : 35114136212

(Pages : 2)

A - 5380

Name : Naraseth

Second Semester B.Voc. (Software Development) Degree  
Examination, July 2016  
VS 324 : C PROGRAMMING

Time : 3 Hours

Max. Marks : 80

I. Answer **all** questions (**One** word to maximum **two** sentences).

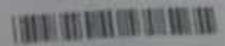
- 1) What is a constant ?
- 2) What is the size of an integer and float variable ?
- 3) Write the syntax of an assignment operator with an example.
- 4) What is the function of & and \* operators ?
- 5) Define pointers in C.
- 6) What do you mean by precedence of operators ?
- 7) Define an array. How will you declare it ?
- 8) What are keywords ? Write two examples.
- 9) Write the syntax of a conditional operator.
- 10) What do you mean by modular programming ?

(10×1=10 Marks)

II. Short answer questions. Answer **any 8** questions from the following. (**Not** to exceed **one** paragraph).

- 11) What is the difference between library and user-defined functions ?
- 12) Write a program to check whether a given year is leap year or not.
- 13) What are nested loops ? Write the syntax of a nested for loop.
- 14) Distinguish between actual and formal parameters.
- 15) What do you mean by scope and visibility of variables ?
- 16) What do you mean by a storage class ?
- 17) Write the syntax of if .. else statement.
- 18) What is an external variable ?
- 19) How will you initialize the elements of an array ?





20) Write a brief note on pointer to arrays.

21) What is recursion?

22) What are the different modes of files?

(8×2=16 Marks)

III. Short essay questions. Answer **any 6** questions from the following (Not to exceed 120 words).

23) Write a program to find the factorial of a number.

24) What are the different data types used in C?

25) Distinguish between:

a) Static and automatic variables

b) Call by value and call by reference.

26) Write a program to find the reverse of a number.

27) What is a multi-dimensional array? Read the elements of a two dimensional array.

28) What is the difference between while and do..while statement?

29) Briefly explain the different types of operators in C.

30) Write a program to illustrate the working of a switch statement.

31) Explain the different string handling functions used in C.

(6×4=24 Marks)

IV. Long essay questions. Answer **any 2** questions from the following.

32) a) Explain the different file operations available in C.

b) Write the syntax of:

i) malloc ( )

ii) calloc ( )

33) a) Write a program to sort a set of strings in alphabetical order.

b) Write the syntax of nested .. if statement.

34) a) Write a program to multiply 2 matrices. ✓

b) Write a note on binary and text files. ✓

35) a) Explain the different input / output statements used in C.

b) What is the difference between a structure and a union?

(2×15=30 Ma

break





Reg. No. : 351171236007.....

Name : *Shikha G. Shrivastava*

Second Semester B.Voc. Degree Examination, August 2018

Software Development

VS 324

C PROGRAMMING

(2014 Admission Onwards)

Time : 3 Hours

Total Marks : 80

SECTION - A

Answer **all** questions. **Each** question carries 1 mark.

(10×1=10 Marks)

1. Distinguish between execution error and compilation error.
2. Give two examples for string handling functions in C.
3. Mention the ternary operator in C.
4. List any four logical operators.
5. Give the disadvantage of goto statement.
6. What is the function used to determine the length of a string ?
7. Give the difference between array and structure.
8. What is a pointer ? How it is declared ?
9. How do you handle errors during File I/O operations ?
10. What is the use of fgetc() ?

## SECTION - B

(8×2=16 Marks)

Answer any eight questions. Each carries 2 marks.

11. List various types of constants in C.
12. Differentiate between static variables and auto variables.
13. What is the use of break statement ?
14. How do you display a string on the screen ?
15. How is structure different from union ?
16. Write a program to display multiplication table for a given number.
17. What is the output of the following code ?

```
main() {  
    int i=3;  
    switch(i) {  
        default:printf("zero");  
        case 1: printf("one");  
        break;  
        case 2:printf("two");  
        break;  
        case 3: printf("three");  
        break; }}
```

18. How do you read and write a character ? Give examples.
19. Give the syntax of 'for' statement.
20. Give the output of the following code :  

```
main()  
{  
    char *p;  
    printf("%d %d",sizeof(*p),sizeof(p));  
}
```
21. Give an example code using a pointer to structure variable.
22. Write a note on fseek() and rewind().

## SECTION - C

Answer **any six** questions. **Each** question carries 4 marks.

(6×4=24 Marks)

23. With examples, explain formatted input statements.
24. What are the four storage classes? Give examples for each.
25. With examples, give the difference between ? : Operator and switch statement.
26. Compare the execution of 'while' and 'do while' statements.
27. Write down the precedence of operators in C.
28. Write a program to reverse a string without using pointers.
29. Explain function definition and function call using an example program.
30. Write a C program to display the contents of an array using pointer arithmetic.
31. Give the differences between malloc() and calloc(). Give an example code.

## SECTION - D

Answer **any two** questions. **Each** question carries 15 marks.

(2×15=30 Marks)

32. Explain the looping structures in C. Give suitable examples.
  33. Define an array. Write a C program to sort a given set of numbers in ascending order using arrays.
  34. Explain any two string handling functions. Write a C program to sort a list of names in alphabetical order.
  - Explain in detail about the operators in C.
-

Reg. No. : 35217136007

Name : Anila G. Anions

Second Semester B.Voc. Degree Examination, August 2018  
Software Development  
VS 322 : ANIMATION SOFTWARE  
(2014 Admission Onwards)

Time : 3 Hours

Total Marks : 80

## SECTION - A

Answer all questions. Each question carries 1 mark.

(10×1=10 Marks)

1. What does viewport background command do ?
2. How are grids helpful ?
3. Which menu contains commands to open and save new scene files and objects ?
4. Differentiate between snap toggle 2D and snap toggle 3D controls.
5. What is transform gizmos ?
6. List the command panel buttons in shapes category.
7. What are modifiers ?
8. Differentiate between morph objects and morph modifier.
9. Give the use of Dent 3D map.
10. How do you set frame rate ?

## SECTION - B

Answer any eight questions. Each question carries 2 marks.

(8×2=16 Marks)

11. What is a trajectory ? Which command displays frame numbers along the trajectory ?
12. Give the purpose of create camera from view command.
13. What does standard primitives include ? How do you access them ?
14. List the command panel buttons in cameras category.



E - 4630

15. Write notes on modifier stack.
16. Explain how two objects are joined using connect object.
17. What is the use of terrain object ?
18. What are different types of shader ?
19. List the external tools through which you can capture images and create material textures.
20. How do you change a free camera to target camera ?
21. Explain how gradient and swirl maps are used to create images.
22. How are natural and artificial lights produced ?

#### SECTION - C

(6x4=24 Ma

Answer **any six** questions. **Each** question carries 4 marks.

23. What can we do with file menu ? Explain its commands.
24. How do you assign/change colors to objects ?
25. Explain the color and reflection properties of material object.
26. How do you control camera view by means for camera navigation controls ?
27. Write notes on view cube.
28. List the standard lighting techniques.
29. How do you access volume light ?
30. Give the uses of ring and ray lens effect.
31. How is morpher modifier useful in animation ?

#### SECTION - D

(2x15=30 Ma

Answer **any two** questions. **Each** carries 15 marks.

32. Explain the function of selection filter and selection commands in detail.
  33. Explain about tracking and matching the camera in detail.
  34. Describe how material details are added with maps.
  35. Explain the use of ghosting feature to animate objects, camera, materials and light.
-



Reg. No. : 3518136034

Name : Lijo Sebastian

Second Semester B.Voc. Degree Examination, May 2019

Software Development

VS 322 – ANIMATION SOFTWARE

(2014 Admission onwards)

Time : 3 Hours

Max. Marks : 80

SECTION – A

Answer all questions. Each question carries 1 mark.

1. Which button is used to lock selection sets?
2. List out different types of transformation operations on objects.
3. What is the use of Normal Align command?
4. What is the use of Melt modifier?
5. How will you create Morph keys in 3ds max?
6. Describe Terrain object.
7. What do you understand by Target camera?
8. Explain Omni light.
9. What is refraction?
10. What are Time rollouts?

(10 × 4 = 10 Mar

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## SECTION - B

Answer any **eight** questions. Each question carries 2 mark.

11. Explain different categories in Create menu.
12. How can you create a cylinder in 3ds max?
13. Explain the importance of Selection filters.
14. Discuss ghosting feature in animation.
15. Differentiate zoom and pan effects.
16. How will you create a ShapeMerge Object?
17. How will you create a Camera View in 3ds max?
18. What are different types of shadows supported by 3ds max?
19. What are Volume Lights?
20. Write short note on Material Editor.
21. Briefly explain 3D maps.
22. Explain Bitmap map.

(8 × 2 = 16 Mark)

## SECTION - C

Answer any **six** questions. Each question carries 4 marks.

23. What are the functionalities of Command Panel?
24. Discuss different Primitive Object Creation Methods.
25. Write a note on different transform buttons in 3ds max.

- ✓ 26. Explain Time Control buttons in detail.
- ✓ 27. How will you setting camera parameters in 3ds max.
- ✓ 28. Write a note on Light Navigation Control Buttons.
- ✓ 29. How to create Light Objects in 3ds max?
30. Discuss Dynamic Properties rollout in detail.
31. How will you perform rendering to a Texture in 3ds max?

(6 × 4 = 24 Marks)

#### SECTION - D

Answer any **two** questions. Each long essay carries 15 marks.

- ✓ 32. Explain Select buttons in detail. How will you perform Select operations with Edit menu?
- ✓ 33. What do you understand by Animation Modifiers? Also write different types of Animation Modifiers in detail.
- ✓ 34. Discuss Camera Objects in detail. How will you controlling and aiming a camera in 3ds max?
35. What do you understand by Standard Materials in Max? Discuss different rollouts in Standard Materials.

(2 × 15 = 30 Marks)

Reg. No. : 35119136034

Name : Lijo Sebastian

Second Semester B.Sc./B.Com./B.B.A./B.C.A./BSW/  
BMS/B.Voc. Degree Examination, MAY 2019.

CAREER RELATED FIRST DEGREE PROGRAMME UNDER CBCSS-2(b)

Language Course II

EN 1211.4./EN 211 : WRITING AND PRESENTATION SKILLS

(2013 Admission Onwards)

Time : 3 Hours

Max. Marks : 80

Answer all questions :

I. Correct the following sentences. If the sentences are correct, write "No Error"!

1. I have been to Africa recently.
2. They discussed about the whole matter.
3. Neither of the boys have returned.
4. We are playing tennis every day.
5. He went to work despite of his illness.
6. She is busy at the work.
7. He is clever but he lacks of experience.
8. I have written to every my friend I have.
9. I don't speak either French or German.
10. I have decided to quit my job a week ago.

(10 × 1 = 10 Ma



II. Answer any **eight** of the following questions in one or two sentences each :

11. ✓ What is a topic sentence?
12. ✓ Define a sentence.
13. ✓ What is meant by enumeration with respect to the construction of a paragraph?
14. ✓ How is spoken communication different from written communication?
15. ✓ What is meant by synopsis?
16. ✓ What is meant by an analytical essay?
17. ✓ What is the word used to describe etiquette on the Internet?
18. ✓ Name the different types of business letters.
19. ✓ Why should you avoid using capital letters throughout in an email?
20. ✓ Write two advertising lines for a newly launched magazine.
21. ✓ Punctuate the following sentence :

looking straight at her he said i cant help you.

22. ✓ Mention the names of some of the different types of note making.

(8 × 2 = 16 Marks)

III Answer any **six** as directed :

23. ✓ Write a letter to the Bank Manager for reissuing your ATM Card.
24. ✓ Construct a dialogue on the following topic in about 80 words.

You arrive at a new city and get lost. You ask a stranger for directions.

25. ✓ Prepare a report on an awareness programme conducted towards 'Banning Plastics' in your college.

- ✓ 26. Prepare a functional resume highlighting your skills and experience..
27. What are the characteristic features of an essay?
- ✓ 28. How can a power point presentation be made effective?
- ✓ 29. Prepare a bunch of questions for conducting a survey on the rising unemployment in your locality.
- ✓ 30. Write a précis of the following passage reducing it to **one third** of its length.

I appreciate the idea of arranging a trip to Srinagar for our school children. Srinagar is a beautiful place and it would be nice if our students are able to see the mesmerizing sights of the place before they leave the school campus. However, with sporadic violence and militancy, it is no longer a safe place for such adventures. Moreover, for the students appearing for the board exams next March, a ten-day trip might be too long. Regarding other arrangements however, there doesn't seem to be much to worry about. For the trip, a luxury bus can be arranged and students can be lodged in a good hotel there. Most of the students would be able to bear the cost of expenses the proposed trip is likely to incur.

- ✓ 31. Write a paragraph of **80** words on Global Warming.

(6 × 4 = 24 Marks)

IV Answer any **two** of the following :

32. Write an essay on **any one** of the following in about two to three pages.

- a. English as a Global Language
- b. The Rise of Social Media
- c. Child Labour

33. Write a project report on any one of the following topics :
- a. Population Explosion
  - b. Rise of road accidents.
  - c. Decline in alcoholism.
34. Create content for 15-20 slides on any one of the following Power Point Presentation.
- a. The importance of exercise.
  - b. The decline of reading as a habit.
  - c. Celebrity culture.
35. Write an essay elaborating the common pitfalls associated with Email Writing.

(2 × 15 = 30 Marks)

Reg. No. : 35117136003...

Name : Anila G. Narayan

Second Semester B.B.A./B.Sc./B.C.A./B.Com./B.S.W. Degree

Examination, August 2018

Career Related FDP under CBCSS - 2(b)

Language Course - II (English - II)

EN 1211.4 : WRITING AND PRESENTATION SKILLS

(Common for B.Voc. Degree Programme in Software Development)

(Language Course EN 1211)

and

for B.Voc. Degree Programme in Tourism and Hospitality Management

(Language Course EN 211 - Writing and Presentation Skills in English)

(2013 Admission Onwards)

Time : 3 Hours

Max. Marks : 80

Answer all questions.

I. Correct the following sentences. If the sentences are correct, write "No Error".

1) The young man was ignorant about the consequences when he slapped a police officer.

2) People were surprised in his extraordinary talent.

3) Please hurry. Its getting late.

4) He is greater than I.

5) One of the girls sing well.

6) Neither Arun nor Joseph are available.

7) He has caught cough.

8) The river flows down the mountain and is going to the ocean.

9) If the recession continues, the country would not grow.

10) The good leader leads the country to prosperity.

(1×10=10 Marks)

II. Answer any eight of the following questions in one or two sentences each.

1.1) Imagine that you are planning to write an essay. Which are the various stages of the writing process?

12) Name different types of paragraphs.





- 13) Attempt a definition of a report.
- 14) Give some examples of presentation strategies.
- 15) What are the advantages of e-mail ?
- 16) List the kinds of information to be provided in a CV.
- 17) Why is writing considered as a skill ?
- 18) Why do you combine different sources in your writing ?
- 19) What is the role of audience in a presentation ?
- 20) How do you combat stage fright ?
- 21) What is a hand-out ?
- 22) What are the disadvantages of a questionnaire ?

(8×2=16 Marks)

III. Answer **any six** as directed :

- 23) Write a letter to your friend inviting him/her to your place during the Christmas vacation for the social service activities you two have already planned together.

- 24) Write a précis of the following passage reducing it to **one third** of its length :

Any ape can reach for a banana, but only humans can reach for the stars. Apes live, contend, breed and die in forests-end of the story. Humans write, investigate, create and quest. We splice genes, split atoms, launch rockets. We peer upward into the heart of the Big Bang and delve deeply into the digits of pi. Perhaps most remarkably of all, we gaze inward, piecing together the puzzle of our own unique and marvellous brain. It makes the mind reel. How can a three-pound mass of jelly that you can hold in your palm imagine angels, contemplate the meaning of infinity and even question its own place in the cosmos ? Especially awe-inspiring is the fact that any single brain, including yours, is made up of atoms that were forged in the hearts of countless far-flung stars billions of years ago. These particles drifted for aeons and light years until gravity and chance brought them together here, now. These atoms now form a conglomerate-your brain-that can not only ponder the very stars that gave it birth but can also think about its own ability to think and wonder about its own ability to wonder. With the arrival of humans, it has been said, the universe has suddenly become conscious of itself. This, truly, is the greatest mystery of all.

- 25) Write a dialogue between you and your teacher on the newly constituted government.
- 26) Prepare a questionnaire for conducting a survey on ecological conscience of people in your locality.
- 27) Write a report on the latest debate conducted in your college.
- 28) Prepare a resume for the post of an artist in a popular magazine.
- 29) What are your objectives in a presentation on 'Youth and The Need to Know Constitution'?
- 30) Differentiate between a report and an essay.
- 31) Power point presentations are sometimes ineffective - when? (6×4=24 Marks)
- V. Attempt any two of the following.
- 32) Write an essay on any one of the following (each in about two or three pages).
- a) The relevance of English education in contemporary Indian context.
  - b) Politics and social media.
  - c) Internet addiction and its consequences.
- 33) Write a project report on any of the following topics :
- a) The problems faced by female students in your college.
  - b) Political consciousness in your college.
  - c) Health and food habits of school children in your area.
- 34) Create content for 15-20 slides on any one of the following for Power Point Presentation :
- a) The notion of development.
  - b) Disadvantages of advertisements.
  - c) Global warming.
- 35) Imagine that you are the Manager of a company. Write a letter apologising to a consumer for delivering a defective or damaged product from your company. (2×15=30 Marks)
-





Reg. No. : 3515136024

Name : Don Dominik

Second Semester B.Voc. (Software Development) Degree  
Examination, July 2016  
VS 324 : C PROGRAMMING

Time : 3 Hours

Max. Marks : 80

I. Answer all questions (One word to maximum two sentences).

- 1) What is a constant ?
- 2) What is the size of an integer and float variable ?
- 3) Write the syntax of an assignment operator with an example.
- 4) What is the function of & and \* operators ?
- 5) Define pointers in C.
- 6) What do you mean by precedence of operators ?
- 7) Define an array. How will you declare it ?
- 8) What are keywords ? Write two examples.
- 9) Write the syntax of a conditional operator.
- 10) What do you mean by modular programming ?

(10×1=10 Marks)

II. Short answer questions. Answer any 8 questions from the following. (Not to exceed one paragraph).

- 11) What is the difference between library and user-defined functions ?
- 12) Write a program to check whether a given year is leap year or not.
- 13) What are nested loops ? Write the syntax of a nested for loop.
- 14) Distinguish between actual and formal parameters.
- 15) What do you mean by scope and visibility of variables ?
- 16) What do you mean by a storage class ?
- 17) Write the syntax of if .. else statement.
- 18) What is an external variable ?
- 19) How will you initialize the elements of an array ?



20) Write a brief note on pointer to arrays.

21) What is recursion ?

22) What are the different modes of files ?

(8×2=16 Marks)

III. Short essay questions. Answer any 6 questions from the following (Not to exceed 120 words).

23) Write a program to find the factorial of a number.

24) What are the different data types used in C ?

25) Distinguish between :

a) Static and automatic variables

b) Call by value and call by reference.

26) Write a program to find the reverse of a number.

27) What is a multi-dimensional array ? Read the elements of a two dimensional array.

28) What is the difference between while and do .. while statement ?

29) Briefly explain the different types of operators in C.

30) Write a program to illustrate the working of a switch statement.

31) Explain the different string handling functions used in C. (6×4=24 Marks)

IV. Long essay questions. Answer any 2 questions from the following.

32) a) Explain the different file operations available in C.

10

b) Write the syntax of :

5

i) malloc ( )

ii) calloc ( )

33) a) Write a program to sort a set of strings in alphabetical order.

10

b) Write the syntax of nested .. if statement.

5

34) a) Write a program to multiply 2 matrices.

10

b) Write a note on binary and text files.

5

35) a) Explain the different input / output statements used in C.

10

b) What is the difference between a structure and a union ?

5

(2×15=30 Marks)



Name : .....

Second Year B.Sc. (Computer Science) Degree Examination, August 2015  
(SDE) (Annual Scheme)  
13.205 (Paper – V) : SYSTEM ANALYSIS AND DESIGN  
(2013 Admission)

326

Time : 3 Hours

Max. Marks : 100

PART – A

Answer **all** questions. **Each** question carries **4** marks.

1. What are communication barriers ?
2. Discuss the business objectives and its constraints.
3. What do you mean by study phase ? Explain.
4. Write short note on technical feasibility.
5. What is background analysis in system analysis ?
6. Explain the logical data structuring techniques.
7. What is data dictionary ? Discuss its structure.
8. What are entity models ?
9. What do you mean by interface design ?
10. Discuss the requirement of input design.

PART – B

Answer **any one** questions from **each** Module, **each** question carries **15** marks.

Module – I

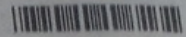
11. Explain the object oriented design approach to system analysis and design.

OR

12. Discuss working practices and financial control procedures in a business organization.



P.T.

**Module – II**

13. What is fact finding ? Explain various fact finding techniques.

OR

14. What is structured analysis ? Explain any two structured analysis tools.

**Module – III**

15. Explain data flow diagram and its levels with suitable example.

OR

16. What are the logical data models ? Identify its requirement and benefits.

**Module – IV**

17. What do you mean by output design ? Explain.

OR

18. Discuss various types of forms and its design structure.

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