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## G .T.N. ARTS COLLEGE ( AUTONOMOUS )

(Affiliated to Madurai Kamaraj University)

(Accredited by NAAC with 'B' Grade)

### SUMMATIVE EXAMINATION - NOVEMBER 2017

Class : I B.Sc. CS/IT/BCA

Date : 15.11.2017

Paper Code : 17UCSA11/17UITA11/17UCA11

Time : 10.00 am to 01.00 pm

Title of the Paper : DISCRETE MATHEMATICS

Max Marks : 75

#### Section – A

[10 X 1 = 10 ]

[Answer ALL the Questions]

- A set of  $n$  elements has \_\_\_\_\_ subsets.  
[a]  $n^2$  [b]  $2^n$  [c]  $2n$  [d]  $n$
- Let  $A = \{ 1, 2, 3, 4, 5 \}$  and  $B = \{ 5, 6, 7 \}$ . Then  $A - B =$  \_\_\_\_  
[a]  $\{ 1, 2, 3, 4 \}$  [b]  $\{ 1, 2, 3, 4, 5, 6, 7 \}$  [c]  $\{ 6, 7 \}$  [d]  $\{ 1, 2, 3, 5 \}$
- Which of the following is not a tautology ?  
[a]  $(p \vee q) \rightarrow p$  [b]  $(p \vee (p \leftrightarrow q)) \rightarrow q$   
[c]  $(p \rightarrow q) \leftrightarrow (\neg p \vee q)$  [d]  $(p \rightarrow q) \Rightarrow (\neg q \rightarrow \neg p)$
- The number of rows in the truth table of  $(q \vee r) \rightarrow (p \wedge \neg r)$  is \_\_\_\_  
[a] 4 [b] 6 [c] 8 [d] 2
- An  $n^{\text{th}}$  order linear relation is a homogeneous relation if  $f(k) =$  \_\_\_\_  
for all  $k$ .  
[a] 0 [b] 1 [c]  $k+1$  [d]  $k-1$
- The characteristic equation  $J(K) - 4J(K-1) + 4J(K-2) = 0$  is \_\_\_\_.  
[a]  $a^3 - 4a^2 + 4a = 0$  [b]  $a^2 - 4a + 4 = 0$  [c]  $a + 4 = 0$  [d]  $a = 0$
- If  $A$  is a square matrix. Then  $A + A^T$  is \_\_\_\_\_  
[a] skew symmetric [b] invertible [c] symmetric [d] Transpose
- A square matrix  $A$  is said to be non-singular if  $|A|$  is \_\_\_\_  
[a] 0 [b]  $\neq 0$  [c] matrix [d] singular
- Petersen graph is a \_\_\_\_\_ graph.  
[a]  $(5, 10)$  [b]  $(15, 10)$  [c]  $(10, 15)$  [d]  $(10, 5)$
- Every tree is a \_\_\_\_ graph.  
[a] cyclic connected [b] acyclic connected [c] cyclic disconnected [d] bipartite

#### Section – B

[ 5 x 7 = 35 ]

[Answer ALL the Questions ]

11. a) If  $A = \{ 1, 2, 3, 4 \}$   $B = \{ 2, 4, 6, 8 \}$  and  $C = \{ 3, 4, 5, 6 \}$   
Find i)  $A \cup (B \cup C)$  ii)  $A \cap (B \cap C)$

[OR]

- b) Prove that i)  $(A \cup B)' = A' \cap B'$  ii)  $(A \cap B)' = A' \cup B'$

12. a) Draw the parsing tree for the formula  $(\neg(\neg(p \wedge (q \rightarrow p))))$ .

[OR]

b) Show that  $(p \vee q) \Leftrightarrow \neg(\neg p \wedge \neg q)$  is a tautology.

13. a) Solve  $D(K) - 8D(K - 1) + 16D(K - 2) = 0$  where  $D(2) = 16, D(3) = 80$

[OR]

b) Calculate  $F_4$  of the Fibonacci number using i) recursion ii) iteration.

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14. a) Find  $A(B + C)$ , where  $A = \begin{pmatrix} 1 & 0 & 2 \\ 3 & -5 & 7 \\ 0 & 0 & 3 \end{pmatrix}, B = \begin{pmatrix} 3 & 5 \\ 6 & 2 \\ 0 & 2 \end{pmatrix}, C = \begin{pmatrix} 0 & -8 \\ 3 & 1 \\ 10 & 4 \end{pmatrix}$

[OR]

b) Verify whether the following system is consistent

$$x + 2y + z = 11, \quad 4x + 6y + 5z = 8, \quad 4x + 4y + 6z = 38.$$

15. a) i) Let  $G$  be a  $(p, q)$  graph all of whose points have degree  $k$  or  $k + 1$ .

If  $G$  has  $t > 0$  points of degree  $k$ , show that  $t = p(k + 1) - 2q$ .

ii) Prove that  $\delta \leq \frac{2q}{p} \leq \Delta$ .

[OR]

b) i) Show that every connected graph has a spanning tree.

ii) Let  $G$  be a  $(p, q)$  connected graph. Then prove that  $q \geq p - 1$ .

Section - A

[3 X 10 = 30]

[Answer ANY THREE Questions]

16. If  $A, B$  and  $C$  are three sets, then prove that

$$A \cap (B \cap C) = (A \cap B) \cap C$$

17. Write down the truth table for the following compound statements and state which of them are tautologies

i)  $(q \vee r) \rightarrow (p \wedge \neg r)$

ii)  $(p \wedge (p \leftrightarrow q)) \rightarrow q$

iii)  $(p \rightarrow q) \leftrightarrow (\neg p \vee q)$

18. Solve  $T(K) - 7T(K - 1) + 10T(K - 2) = 6 + 8K$  with  $T(0) = 1$  and  $T(1) = 2$ .

19. Find the Eigen values and the Eigen vectors of the matrix

$$\begin{pmatrix} 8 & -6 & 2 \\ -6 & 7 & -4 \\ 2 & -4 & 3 \end{pmatrix}.$$

20. Prove that the maximum number of lines among all  $p$  point graphs with

no triangles is  $\left\lfloor \frac{p^2}{4} \right\rfloor$ .

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**SUMMATIVE EXAMINATION - NOVEMBER 2017**

Class : I.B.C.A

Paper Code : 17UCAC11

Title of the Paper : **Programming in C**

Date : **08.11.2017**

Time : **10:00 am to 01:00 pm**

Max Marks : **75**

**Section – A**

**[10 X 1 = 10 ]**

**[Answer ALL the Questions]**

- C was developed by  
[a] Ken Thompson [b] Richards [c] Dennis Ritchie [d] Kernighan and Ritchie
- Which is valid variable name?  
[a] 5Minimum [b] 2<sup>nd</sup>-row [c] row total [d] sum
- scanf() statement is used to \_\_\_\_\_ data.  
[a] Read a character [b] read formatted String [c] write a character [d] write formatted string
- \_\_\_\_\_ is multiway decision statement.  
[a] switch [b] If else [c] while [d] do
- Array is a \_\_\_\_\_ collection of elements of the same data type.  
[a] Variable size sequenced [b] fixed size sequenced  
[c] variable sized random [d] fixed size random
- C program do not permit to \_\_\_\_\_ two strings directly.  
[a] Concatenate [b] compare [c] copy [d] extract
- A function return \_\_\_\_\_ value by default.  
[a] no [b] one [c] integer [d] float
- A structure can have elements of \_\_\_\_\_ types.  
[a] same [b] different [c] equal [d] unequal
- The process of assigning the address of a variable to a pointer variable is known as \_\_\_\_\_.  
[a] Initialization [b] declaration [c] assignment [d] pointer to address
- When a file is opened in 'w' mode, contents of files are \_\_\_\_\_.  
[a] updated [b] added [c] deleted [d] erased.

**Section – B**

**[ 5 X 7 = 35 ]**

**[Answer ALL the Questions]**

11a) Explain the Basic Structure of C.

**[OR]**

b) Write the data types in c language.

12a) How to read and write characters in C? Explain.

[OR]

b) Explain the for loop with example.

13a) How to read strings from terminal? Explain.

[OR]

b) Write about the String handling functions.

14a) What is recursion? Explain with example.

[OR]

b) Write about arrays of structures.

15a) Illustrate pointers and arrays.

[OR]

b) Explain the command line argument.

**Section – C**

**[ 3 X 10 = 30 ]**

**[Answer Any THREE Questions]**

16. Discuss on Operators in C.

17. Compare while and do statement with example.

18. What is an array? Explain how to declare and initialize one dimensional array.

19. Discuss on the categories of functions.

20. How do you perform Input Output operations on files? Discuss.

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### **SUMMATIVE EXAMINATION - NOVEMBER 2017**

Class : **I B.Com (CA)**

Paper Code : **17UCAN11**

Title of the Paper : **Introduction to Information Technology**

Date : **06.11.2017**

Time : **10.00 a.m to 01.00 p.m**

Max Marks : **75**

#### **Section – A**

**[10 X 1 = 10 ]**

**[Answer ALL the Questions]**

1. Processed data can be called as  
[a] Information [b] Raw data [c] Knowledge [d] Message
2. \_\_\_\_\_ is the utilization of technology to improve the realization of office functions  
[a] Office management [b] Office PC [c] Office automation [d] Office records
3. The example of Sequential Access Memory is.  
[a] Floppy disk [b] Hard disk [c] Magnetic tape [d] Laser
4. A byte consists of.  
[a] 4 bits [b] 2 bits [c] 6 bits [d] 8 bits
5. \_\_\_\_\_ is the component of computer which executes the instructions.  
[a] CPU [b] Software [c] Memory [d] Hardware
6. A laser printer is an example of.  
[a] Dot matrix printer [b] Daisy wheel printer [c] Chain printer [d] Non-impact printers
7. RAM stands for.  
[a] Restored Actual Memory [b] Random Access Memory  
[c] Rest Ahead Memory [d] Remain Ahead Memory
8. DOS is a.  
[a] Single-user operating system [b] Single-user but multiple-programming  
[c] Multi-user operating system. [d] Multi-user and multi-programming
9. The WWW means.  
[a] World With Web [b] Web With Web [c] World Wide Web [d] Web With World
10. When you open Internet, the first page is referred to as.  
[a] Master page [b] Home page [c] First page [d] Title page

#### **Section – B**

**[ 5 X 7 = 35 ]**

**[Answer ALL the Questions]**

11. a) Write short notes on Information systems.  
**[OR]**  
b) How IT is used in education and training? Explain.

12. a) What are the types of computers? Explain.

[OR]

b) Illustrate on memory unit in detail.

13. a) Write a note on output devices.

[OR]

b) Write down the storage characteristics.

14. a) Explain about application program.

[OR]

b) High light the major software issues.

15. a) Write short notes on World Wide Web.

[OR]

b) How do you browsing the web? Explain.

**Section – C**

**[ 3 X 10 = 30 ]**

**[Answer Any THREE Questions]**

16. Briefly explain the role of IT in entertainment and the arts.

17. Describe about the Central Processing Unit.

18. Explain the input devices in detail.

19. What is an operating system? Explain.

20. Write down the fundamentals of Internet.



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**G.T.N. ARTS COLLEGE (AUTONOMOUS)**

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**SUMMATIVE EXAMINATION - NOVEMBER 2017**

Class : I B.A / B.Sc., / B.Com / B.Com(C.A)/B.B.A

Date : 03.11.2017

Paper Code : 17UENL11

Time : 10:00 am to 01:00 pm

Title of the Paper : **English for Enrichment**

Max Marks : 75

**Section – A**

**[10 X 1 = 10 ]**

**[Answer ALL the Questions]**

1. The phrase 'that one talent' in the poem *On His Blindness* refers to \_\_\_\_\_.  
[a] a unit of money [b] poetic genius [c] Reconciliation [d] his epics
2. The African-American in *Telephone Conversations* describes himself as \_\_\_\_\_.  
[a] West-African Sepia [b] South African Goldmines  
[c] Dark Chocolates [d] Cigarette holder
3. What is the song sung by all of God's children?  
[a] Negro still is not free [b] I have a dream today [c] For whites only [d] Free at last
4. What does Leacock mean when he says, "I was conscious of a break in my voice."?  
[a] He paused for a while in his speech [b] his voice was not clear  
[c] He was about to cry [d] the photographer interrupted
5. How did Orpheus break his engagement?  
[a] by playing on his golden harp [b] by leaving the Earth  
[c] by defeating Cerberus [d] by turning round to look at Eurydice
6. The rent for keeping the road engine in the Gymkhana grounds was \_\_\_\_\_.  
[a] ` . 10/- [b] ` .3/- [c] ` .5/- [d] ` . 4/-
7. Which of the following is a transitive verb?  
[a] The ice melted [b] She sings gracefully  
[c] They sold their house [d] My baby is beautiful
8. Find the highlighted part of the sentence: The dog barks **during the night**.  
[a] Noun [b] adverb [c] adjective [d] pronoun
9. What is the component of cheap ad?  
[a] words get limited by offer [b] words create an emotional effect  
[c] effective words are used [d] words are attractive
10. Precise writing is a \_\_\_\_\_ of an original passage.  
[a] summary [b] abstract [c] outline [d] order of ideas



**Section – B**

**[ 5 X 7 = 35 ]**

**[Answer ALL the Questions]**

11(a). Give the character sketch of the white lady in *Telephone Conversation*.

**[OR]**

(b). Discuss the theme of *Ozymandias*

12(a). What are the defects of being spoon-fed in our daily activities?

**[OR]**

(b). Narrate how Leacock's narration moves us to sympathy.

13(a). Describe the valor of Prince Victor.

**[OR]**

(b). Discuss the tragic love of Orpheus and Eurydice.

14 (a). Fill in the blanks with articles:

- i) I met \_\_\_ boy yesterday. \_\_\_ boy belongs to Delhi.
- ii) There is some water in the pond. But \_\_\_ water is muddy.
- iii) \_\_\_ new bridge is being constructed across \_\_\_ river Pampa by \_\_\_\_\_ engineering company.
- iv) Mr.Shankar is \_\_\_ MP

**[OR]**

(b). Fill in the blanks as instructed in the brackets:

- i) \_\_\_\_\_ is a champion in Chess. (Noun)
- ii) \_\_\_\_\_ My team has won the shield. (Interjection)
- iii) The girl comes late. \_\_\_\_\_ has missed her train. (Pronoun)
- iv) Ragav is sick \_\_\_ he completes his work on time. (Conjunction)
- v) Mango is a \_\_\_\_\_ fruit. (Adjective)
- vi) \_\_\_\_\_ Please be quiet. (Interjection)
- vii) The child jumped \_\_\_ joy. (Preposition)

15(a). Draft a creative advertisement for a furniture showroom.

**[OR]**

(b). Write a formal letter for a bank to issue a new passbook.

**Section – C**

**[ 3 X 10 = 30 ]**

**[Answer Any THREE Questions]**

16. Discuss in detail how D.H.Lawrence explores the purity and innocence of the Other World in contrast to the Humans.

17. Write in brief about the optimistic values to be instilled to Lincoln's son in his letter to the headmaster.

18. Bring out the humour in *Engine Trouble*.

19. Find whether the following verbs are transitive or intransitive:

- a) She paints a picture.
- b) Shyam is not aware of my arrival till now.
- c) Today is a fine day.
- d) Early bird catches its prey.
- e) Purnima makes her speech tomorrow.
- f) How dare you!
- g) She has come at the last moment.
- h) The dog barks.
- i) He has stolen the car.
- j) Maria is a cook.

20. Make précis for the following passage:

All of us have friends. Some are true friends but some are not. Who is a true friend? How can we recognize a real friend? A true friend is one who is sincere to us and is ready to help us when we are in need of help. When we are in the best of circumstances, when we have plenty of money, when we are happy in every way, there will be many people around us pretending to be our friends. But many of them are false and insincere. They are there only to take advantage of the circumstances we are in. If there is a sudden change in our fortunes and we are in need of help from our friends, these insincere people will vanish immediately. Only true friends will remain with us at that time. We can recognize our true friends only during times of adversity. So it is important to choose our friends carefully. False friends can do more harm to us than our sworn enemies because, while we avoid our enemies, we tend to trust those who pretend to be our friends. Only fire brings out the true quality of pure gold. Similarly, only unfortunate circumstances help us to recognize our true friends.



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### **SUMMATIVE EXAMINATION - NOVEMBER 2017**

Class : **I B.C.A**

Paper Code : **17UHMN11**

Title of the Paper : **Basic Hospitality Services**

Date : **06.11.2017**

Time : **10.00 a.m to 01.00 p.m**

Max Marks : **75**

#### **Section – A**

**[10 X 1 = 10 ]**

**[Answer ALL the Questions]**

- Which one of the following is an example of a Secondary Catering Sector?  
[a] Hotel [b] Fast food outlet [c] Ethnic- Restaurant [d] Hospital
- Dhabas are located at  
[a] Beaches [b] Hill station [c] Highways [d] Airports
- Chef patissier is responsible for making  
[a] Salads [b] Pastas [c] Soups [d] Sweets
- Standard cooking time for chicken stock?  
[a] 3 hours [b] 4 hours [c] 2 hours [d] 6 hours
- Time required for hard boil egg is  
[a] 8 min [b] 9 min [c] 10 min [d] 12 min
- A hotel property set in small forts , palaces or haveli is known as  
[a] Heritage hotel [b] Floatel [c] Motel [d] None of these
- The front desk area of the hotel where employee greets the guests and answer their queries on arrival is called  
[a] Reservation area [b] Concierge [c] Reception area [d] All of these
- What is Shams?  
[a] American term for Bath towel [b] American term for Bed sheet  
[c] American term for Bath mat [d] American term for Pillow cases
- What is R1 cleaning agent use?  
[a] Glass cleaner [b] Furniture cleaner  
[c] Air freshener [d] Multi purpose cleaner especially bathroom
- What is Welish rarebit?  
[a] A sweet [b] Savoury tit-bit [c] Cheese [d] Vegetable

#### **Section – B**

**[ 5 X 7 = 35 ]**

**[Answer ALL the Questions]**

- a) Write a detailed note on the development of Food Service Industry in India?

**[OR]**

b) Classification of hotels based on Location , Size ,Plan?

12. a) Draw the Kitchen Organization chart for a Five star hotel?

**[OR]**

b) Explain the Aims and Objectives of Cooking food?

13.a) Describe the various types of rooms you will find in a hotel?

**[OR]**

b) What are the various department of a hotel?

14. a) Explain the following terms

1) Discrepancy 2) Scanty baggage 3) Skipper 4) Maid's cart

**[OR]**

b) What are the cleaning Agents and Equipments used in the hotel industry . Explain?

15. a) Explain the Types of Menu & Types of Table service?

**[OR]**

b) Explain the Attributes required for Service Staff?

**Section – C**

**[ 3 X 10 = 30 ]**

**[Answer Any THREE Questions]**

16. Explain the various types of Catering Establishments with Chart?

17. Explain about the Methods of Cooking?

18. What are the Important function of House keeping Department in Hotel industry?

19. What are the Career Opportunities in Hotel Industry?

20. Explain the Types of Menu, meals and its services?

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**SUMMATIVE EXAMINATION - NOVEMBER 2017**

Class : I Year B.A. / B.Sc.,

Date : 01.11.2017

Paper Code : 17UTAL11

Time : 10:00 am to 01:00 pm

Title of the Paper : ,f;fhy ,yf;fpaKk;> GidfijAk; Max Marks : 75

**gFjp – m**

**[10 X 1 = 10 ]**

**[rhpahd tpiliaj; Njh;e;njLj;njOJf]**

1. 'vq;fpUe;Njh te;jhd; ,ilr;rhjp ehd; vd;whd;' ,t;tbapy; ,lk;ngWk;  
,ilr;rhjpiar; rhHe;jtd; ahH?

m. ghujpahH M. ghujpjhrd; ,. ftpkzp <. fz;zd;

2. 'kf;fs; ftpQH' vd;wiof;fg;gLgtH ahH?

m. ghujpahH M. ghujpjhrd; ,. gl;Lf;Nfhl;il fypahzRe;juk; <. ftpkzp

3. 'fhfpjg;G+f;fs;' vd;W eh. fhkuhrd; ahiu cUf;gLj;JfpwhH?

m. ky;ypif M. nrk;gUj;jp ,. jpUeq;iffs; <. fhfpjg;G+

4. ve;j ,USf;Fs; Eioa Ntz;lhk; vd;fpwhH ftpQH.kPuh?

m. ehd; M. kio ,Ul;L ,. fh;by; cs;s ,Us; <. tpsf;fpy;yhj ,Us;

5. rhTj;jphp vd;d> vd;d gl;lq;fisg; ngw;whs;?

m. vk;.V.> M. vk;. fhk;.> ,. gp.V.>vy;.b.> <. gp.v];.rp.>

6. itj;a tpujj;Jf;F Ml;gl Kbahky; jdf;nfd xU ghij tFj;J nfhz;lts; ahH?

m. kPdh M. fPjh ,. itNjfp <. ghHtjp

7. Fw;wpaYfuk; vj;jid tifg;gLk; ?

m. 12 M. 6 ,. 8 <. 10

8. nkhopf;F ,Wjpapy; tUk; nka;naOj;Jf;fspd; vz;zpf;if vj;jid?

m. 24 M. 10 ,. 11 <. 14

9. 'rpe;Jf;F je;ij' vd;wiof;fg;gLgtH ahH?

m. fz;zjhrd; M. Kbaurd; ,. ghujpahH <. ghujpjhrd;

10. 'rpWfijapd; kd;dd;' vd;wiof;fg;gLgtH ahH?

m. GJikg;gpj;jd; M. F.gh. uhrNfhghyd; ,. n[afhe;jd; <. ts;spag;gd;

**gFjp – M** [ 5 X 7 = 35 ]  
[midj;J tpdhf;fSf;Fk; tpilasp]

**11. m)** 'ftpQd; my;yd;' vd;W ahH> ahiunay;yhk; Kbaurd; thpirg;gLj;JfpwhH?

(my;yJ)

- 1 -

**M)** 'ghuj Njrk; gl;bdp xope;J tho Ntz;Lk;' vd;gJ Viof;ftpQdpd;  
,jaj;Jbg;G vd;wtH ahH? tpsf;Ff.

**12. m)** jpUeq;iffspd; kd czHTfis 'fhfpjg;G+f;fs;' top tpsf;Ff.

(my;yJ)

**M)** 'Rak;' ,oe;j ngz;zpd; ,ay;Gfis 'Rak;' ftpijapd; top tpsf;Ff

**13. m)** tWikapy; cs;s kf;fs; njhlHe;J Vkhw;wq;fis milAk; ghq;fpid  
'nrt;thio' fij top tpsf;Ff.

(my;yJ)

**M)** fp.uh[ehuhazdpd; 'fjT' vd;w rpWfij vLj;Jiuf;Fk; nra;jpfisj; njhFj;Jiuf;f

**14. m)** ty;ypdk; kpfh ,lq;fis thpirg;gLj;Jf.

(my;yJ)

**M)** nkhopf;F ,Wjpapy; tUk; vOj;Jf;fspd; vz;zpf;if vj;jid? tpsf;Ff.

**15. m)** nghUs; NtWghL jUf.

1.jiy> jis> jio 2. ehyp> ehsp> ehop 3.myp> msp> mop 4. Gfo;> Gfy;

(my;yJ)

**M)** rpWfijapd; ,yf;fzk; \$wp> GJikg;gpj;jdpd; eilj;jpwid tpsf;Ff.

**gFjp – ,** [ 3 X 10 = 30 ]  
[vitNaDk; %d;wDf;F tpilasp]

**16.** 'fz;zd; vd; Nrtfd;' vd;W ghujp tpjj;Jiuj;j tpjj;ijf; fl;Liuf;f.

**17.** tpyq;fpDk;> fPohdtd; kdpjd; vd;gij 'le;J nghpJ> MW rpwpJ' vd;w  
ftpijapd; top tpsf;Ff.

**18.** n[afhe;jdpd; ngz;zpar; rpe;jidia 'Afre;jp' top tpsf;Ff.

**19.** rhHngOj;J vj;jid tifg;gLk;? mjd; tiffis vLj;Jf;fhl;L je;J fl;Liuf;f.

**20.** GJf;ftpijapd; ,yf;fzk; vd;d? mf;ftpij Njhd;wp> tsHe;j tpjj;ijf; fl;Liuf;f.

