

(i) Printed Pages : 2

Roll No.

(ii) Questions : 5

Sub. Code :

1	0	3	6	4
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Exam. Code :

5	0	0	1
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NEP U.G. Common-Value Added Course 1st Semester
(2125)

COMPUTER SCIENCE & APPLICATIONS

Paper : Digital Empowerment

Time Allowed : Three Hours]

[Maximum Marks : 45

Note :—(1) Question Paper consists of five questions comprising two questions each in Section A and Section B and one compulsory question of short answer type in Section C.

(2) The students are required to attempt any one question each from Sections A & B and Section C is compulsory.

SECTION—A

1. (a) Explain the main vision and challenges of Digital India in detail. 8
- (b) What is DigiLocker? Explain its purpose in detail. 7
2. (a) What is Email? Explain its advantages and components in detail. 8
- (b) Explain video conferencing with its uses and benefits in detail. 7

SECTION—B

3. (a) Explain applications of Blockchain technology in detail. 8
(b) What is cyber security threat? Explain different security threats in detail. 7
4. (a) What is Digital communication? Explain its advantages and ethics in detail. 8
(b) Explain challenges and ethics in Cyberspace in detail. 7

SECTION—C

(Compulsory)

5. Elaborate in detail : -
- (a) Digital Empowerment
(b) e_Pathshala
(c) Online Learning
(d) Netiquettes
(e) Cyber Attacks 3+3+3+3

(i) Printed Pages : 2

Roll No.

(ii) Questions : 9

Sub. Code :

1	0	0	8	1
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Exam. Code :

5	0	0	1
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NEP U.G. Common-Inter Disciplinary Course 1st Semester
(2125)

COMPUTER SCIENCE & APPLICATION

Paper-E-Commerce COMIDC1

Time Allowed : Three Hours]

[Maximum Marks : 75

Note :— Attempt *five* questions in all by selecting *one* question from each Unit. Entire Question Number IX is compulsory.

UNIT—I

- I. (a) What is E-Commerce? Explain the problems faced by traditional business systems. How does an E-Commerce business perform better in comparison to a physical store?
- (b) What are the primary types of E-Commerce business models? Exemplify each model. 8,7
- II. (a) What is Electronic Data Interchange? Explain its importance in managing e-business.
- (b) Explain EDI standards and EDI in India. 8,7

UNIT—II

- III. (a) What do you mean by web-based business? Write steps for setting up business on Internet.
- (b) What is Domain Name? How is it selected and registered? 8,7

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1

[Turn over

- IV. (a) Explain the main features of Web Authoring tools.
(b) What is Web Hosting? How is it done? Write steps. 8,7

UNIT—III

- V. Explain the following :
- (a) E-cash
 - (b) Electronic Purses
 - (c) Inter Bank Clearing System. $3 \times 5 = 15$
- VI. Define Electronic Payment Systems (EPS). Explain the various types of options available for EPS these days. Briefly describe the advantages and disadvantages of EPS. 15

UNIT—IV

- VII. (a) What is M-Commerce? Explain its benefits and issues.
(b) Explain any successful case study of E-Governance with its goals, objectives and implementation process. 8,7
- VIII. (a) Explain various types of Cyber Crimes. Give suitable examples of each type.
(b) Write short note on IT Act -2000. Explain its need and the changes it envisioned. 8,7

(Compulsory Question)

- IX. Write short answers :
- (i) What is Search Engine Optimization?
 - (ii) What are the components of Electronic Data Interchange?
 - (iii) Difference between credit and debit cards.
 - (iv) Define E-Governance and its impact on society.
 - (v) Differentiate between E-Commerce and M-Commerce. $5 \times 3 = 15$

mobility

(i) Printed Pages : 2

Roll No.

(ii) Questions : 9

Sub. Code :

1	0	3	8	1
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Exam. Code :

5	0	0	1
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Other Than B.A. (FYUP) 1st Semester
(2125)

HISTORY AND CULTURE OF PUNJAB

Paper : History and Culture of Punjab (Upto C. 18th Century)

Time Allowed : Three Hours]

[Maximum Marks : 45

Note :— (1) Question number 1 is compulsory. Attempt any five questions. Each question carries 1 mark.

(2) Attempt two questions from each of the two units. Each question carries 10 marks.

1. Answer any five questions of the following in about 25-30 words :

1. What do you know about town planning in the Harappan civilization?
2. Name two Gods worshipped in the Later-Vedic period.
3. What is the core ideology of Bhakti?
4. Define Langar.
5. When and by whom was the Khalsa created?
6. When and where was Guru Tegh Bahadur martyred?
7. What is Miri-Piri?
8. What do you know about the Masand system? $5 \times 1 = 5$

UNIT—I

Attempt any **two** questions :

2. Throw light on the socio-economic life of the Vedic age. 10
3. Trace the growth of Jainism and Buddhism in Punjab. 10
4. Examine the socio-economic aspects of the Harappan civilization. 10
5. Evaluate the contributions of the Bhakti saints. 10

UNIT—II

Attempt any **two** questions :

6. Analyse the ideology of Guru Nanak in the contemporary socio-religious context. 10
7. Highlight the causes responsible for the martyrdom of Guru Tegh Bahadur. 10
8. Throw light on the transformation in Sikhism under Guru Hargobind. 10
9. What was the impact of the creation of Khalsa on polity and society? 10

(i) Printed Pages : 3

Roll No.

(ii) Questions : 9

Sub. Code :

1	3	4	0	1
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Exam. Code :

5	0	4	1
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Bachelor of Computer Application (FYUP) 1st Semester
(2125)

INTRODUCTION TO WEB TECHNOLOGIES

Paper : BCA101

Time Allowed : Three Hours]

[Maximum Marks : 45

Note :— Attempt five questions in all, by selecting one question each from Units I, II, III, and IV. Question No. 9 is compulsory.

UNIT—I

1. (a) Differentiate between Internet, Intranet, and Extranet. 5
(b) Explain the HTML tag and its attributes for adding images to a webpage. 4
2. (a) Discuss the tags and attributes for creating different types of lists in HTML. 5
(b) How are tables created in HTML? Explain the difference between rowspan and colspan attributes. 4

UNIT—II

3. (a) What is hyperlinking? Explain the tag and attributes used for creating links between webpages. 5
- (b) What are frames? Discuss the steps for creating frames in a webpage. 4
4. (a) Explain different types of cascading style sheets with the help of examples. 5
- (b) What is a form? Describe various options of the <input> tag used in the form. Give examples. 4

UNIT—III

5. (a) What is JavaScript? Explain the different methods of adding JavaScript code to your webpage. 5
- (b) Explain different looping constructs available in JavaScript. 4
6. (a) What is an array? How are arrays created in JavaScript? Explain any two methods of the Array object. 5
- (b) Explain any four methods of the Date built-in object of JavaScript. 4

UNIT—IV

7. Explain the features and workspace layout of Dreamweaver. 9

8. (a) How can you add lists to a webpage using Dreamweaver? 5

(b) Write the steps for inserting tables in a webpage using Dreamweaver. 4

(Compulsory Question)

9. Write short answers for the following:

(a) Define WWW. 1

(b) Difference between Get and Post methods of a form. 2

(c) What is the difference between
 and <P>? 2

(d) Define URL. 2

(e) What is a web server? 2

(i) Printed Pages : 4

Roll No.

(ii) Questions : 9

Sub. Code :

1	3	4	0	2
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Exam. Code :

5	0	4	1
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Bachelor of Computer Application (FYUP) 1st Semester
(2125)

FUNDAMENTAL OF MATHEMATICAL STATISTICS

Paper : BCA102

Time Allowed : Three Hours]

[Maximum Marks : 90

Note :— Attempt FIVE questions in all, selecting ONE question each from Units I, II, III, and IV. Question number 9 is compulsory. All questions carry equal marks. Log tables and non-programmable calculators are allowed.

UNIT-I

1. (i) Write short notes using examples for:
 - (a) Sources of collecting primary and secondary data,
 - (b) Measures of central tendency.
- (ii) For the numbers 1, 4, 16, 64, find the Arithmetic Mean (AM), Geometric Mean (GM), and Harmonic Mean (HM). Also, prove for this data, $HM \leq GM \leq AM$.

$$(5+4)+9=18$$

2. (i) Write short notes on:
- Steps in statistical investigation,
 - Grouped frequency distribution.
- (ii) For the numbers 1, 4, 16 with corresponding weights 1, 2, 1 respectively, find the weighted arithmetic mean (WAM), weighted geometric mean (WGM), and weighted harmonic mean (WHM). Also, prove for this data, $WHM \leq WGM \leq WAM$. $(5+4)+9=18$

UNIT-II

3. (i) Obtain median and mode for the following frequency distribution:

x	1	2	3	4	5	6	7	8	9
f	7	12	9	14	18	22	17	11	8

$4+5=9$

- (ii) Write formulas for:
- Standard deviation for individual series,
 - Computation of interquartile range,
 - Discrete series. $3+3+3=9$
4. (i) Calculate the mean, standard deviation, and coefficient of variation for the given frequency table:

Interval	10-20	20-30	30-40	40-50	50-60
Frequency	3	5	8	6	3

$2+3+4=9$

(ii) Discuss using examples for:

(a) Hexiles

(b) Variance

(c) Continuous series.

$$3+3+3=9$$

UNIT-III

5. (i) Calculate Karl Pearson's coefficient of correlation (using any technique) for:

x	10	14	18	22	26	30	34
y	7	11	15	19	23	27	31

9

(ii) Write short notes on:

(a) Correlation and its scatter diagram method

(b) Probable error.

$$6+3=9$$

6. (i) Calculate Spearman's coefficient of correlation (assume ranks are given) for:

x	1	2	3	4	5	6	7
y	5	3	7	1	2	6	4

9

(ii) Write short notes on:

(a) Coefficient of determination

(b) Difference between Rank Coefficient and Karl Pearson's coefficient of correlation.

$$3+6=9$$

UNIT-IV

7. (i) Find linear regression equation for the following two sets of data:

x	3	6	9	12
y	5	11	9	15

9

- (ii) Write short notes on:

(a) Regression Coefficient in case of Grouped Data

(b) Non-linear regression.

5+4=9

8. (i) Find the regression coefficients for the following data:

Age	21	14	17	19
Marks	95	68	82	78

9

- (ii) Discuss in detail the properties of regression coefficient and limitations of regression analysis.

5+4=9

(Compulsory Question)

9. (i) Discuss measure of central tendency.
(ii) What is percentile range and how to compute it?
(iii) Write short note on coefficient of concurrent deviation.
(iv) Write short note on linear regression.

5+5+4+4=18

(i) Printed Pages : 2 Roll No.

(ii) Questions : 9 Sub. Code :

1	3	4	0	3
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Exam. Code :

5	0	4	1
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Bachelor of Computer Application (FYUP) 1st Semester
(2125)

PROBLEM SOLVING THROUGH C

Paper : BCA103

Time Allowed : Three Hours] [Maximum Marks : 45

Note :— Attempt **FIVE** questions in all, selecting **ONE** question each from Unit-I to Unit-IV. Unit-V is compulsory.

UNIT-I

1. (a) Write the structure of a C program along with an example. 5
- (b) What is a flowchart? Draw a flowchart to find the largest of three given numbers. 4
2. (a) List and briefly explain different types of operators used in C. 5
- (b) Explain the concept of constants in C programming. Write different types of constants in C. 4

UNIT-II

3. (a) Explain switch statement in C. How does it differ from the else-if statement? 5
- (b) What do you mean by recursion? Write a C Program to calculate factorial of a number using recursion. 4

4. (a) What are the various methods of parameter passing to functions? Explain with example. 5
 (b) Write the difference between while and do-while along with example. 4

UNIT-III

5. (a) What is an array? Explain how arrays are declared and initialized in C with example. 5
 (b) Write a C program to search an element from an array. 4
6. (a) Explain how 2-Dimensional arrays are stored in memory. Write a C program to read and display 3×3 matrix. 5
 (b) What is a pointer in C? How do you access the value pointed to by a pointer? Give an example. 4

UNIT-IV

7. Define a string in C programming. Write any four string library functions along with example. 9
8. What are structures in C programming? How are structures different from union? Discuss the concept of Array of structures. 9

UNIT-V

9. (a) Write the difference between local and global variable. 2
 (b) Write the difference between compilation and execution. 2
 (c) What is the role of *goto* statement in C? 2
 (d) Write the difference between *break* and *continue* statements in C. 2
 (e) Define keywords in C. 1

(i) Printed Pages : 3

Roll No.

(ii) Questions : 7

Sub. Code :

1	3	4	1	2
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Exam. Code :

5	0	4	1
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Bachelor of Computer Application (FYUP) 1st Semester
(2125)

PUNJABI

Paper : Punjabi Sabhyachar Ate Viharak Punjabi (PUNC101)

Time Allowed : Three Hours]

[Maximum Marks : 45

ਯੂਨਿਟ-1

1. ਹੇਠ ਲਿਖੇ ਨਿਬੰਧਾਂ ਵਿੱਚੋਂ ਕਿਸੇ ਇੱਕ ਦਾ ਵਿਸ਼ਾ ਦੱਸ ਕੇ ਸਾਰ ਲਿਖੋ: 8
(ੳ) ਜੀਵਨ
(ਅ) ਰਸਮਾਂ, ਤਿਉਹਾਰ ਤੇ ਮੇਲੇ।
2. ਹੇਠ ਲਿਖੇ ਪ੍ਰਸ਼ਨਾਂ ਵਿੱਚੋਂ ਕਿਸੇ ਦੋ ਪ੍ਰਸ਼ਨਾਂ ਦਾ ਉੱਤਰ ਦਿਉ: 4×2=8
(ੳ) ਵਿਆਹ ਦੀਆਂ ਰਸਮਾਂ ਉੱਤੇ ਨੋਟ ਲਿਖੋ।
(ਅ) ਪੰਜਾਬ ਵਿੱਚ ਮਨਾਏ ਜਾਂਦੇ ਮੇਲੇ ਅਤੇ ਤਿਉਹਾਰਾਂ ਸੰਬੰਧੀ ਜਾਣਕਾਰੀ ਦਿਉ।
(ੲ) ਪੰਜਾਬ ਦੀਆਂ ਲੋਕ ਖੇਡਾਂ ਦੇ ਨਾਮ ਦੱਸਦੇ ਹੋਏ, ਉਹਨਾਂ ਦੀ ਸੰਖੇਪ ਜਾਣਕਾਰੀ ਦਿਉ।
(ਸ) ਪੰਜਾਬੀ ਸੱਭਿਆਚਾਰ ਵਿੱਚ ਕਿਹੜੇ ਨਾਚ ਮਸ਼ਹੂਰ ਹਨ, ਚਰਚਾ ਕਰੋ।
3. ਹੇਠ ਲਿਖੀਆਂ ਵਾਰਤਕ ਟੁਕੜੀਆਂ ਵਿੱਚੋਂ ਕਿਸੇ ਇੱਕ ਦੀ ਪ੍ਰਸੰਗ ਦੱਸ ਕੇ ਵਿਆਖਿਆ ਕਰੋ: 4

ਵਿਸਾਖੀ : ਪੰਜਾਬੀ ਦਾ ਵਰ੍ਹਾ ਵਿਸਾਖੀ ਨਾਲ ਸ਼ੁਰੂ ਹੁੰਦਾ ਹੈ। ਪੰਜਾਬੀਆਂ ਲਈ ਇਹ ਕੰਮ ਤੇ ਖੁਸ਼ੀ ਦਾ ਆਗਮਨ ਹੈ। ਪੱਕੀਆਂ ਫਸਲਾਂ ਦੀ ਵਾਢੀ ਦਾ

ਇਸ ਸਮੇਂ ਪ੍ਰਬੰਧ ਕੀਤਾ ਜਾਂਦਾ ਹੈ। ਫਸਲ ਕੱਟਣ ਤੋਂ ਵਿਹਲਿਆਂ ਹੋ ਕੇ ਭੰਗੜੇ ਪਾਏ ਜਾਂਦੇ ਹਨ ਅਤੇ ਵਿਸਾਖੀ ਦੇ ਮੇਲੇ ਨੂੰ ਬੜੇ ਚਾਅ ਨਾਲ ਉਡੀਕਿਆ ਤੇ ਮਨਾਇਆ ਜਾਂਦਾ ਹੈ। ਗੁਰੂ ਗੋਬਿੰਦ ਸਿੰਘ ਜੀ ਨੇ ਇਸੇ ਦਿਨ ਖਾਲਸੇ ਦੀ ਸਿਰਜਣਾ ਕੀਤੀ ਸੀ। ਇਸ ਤਰ੍ਹਾਂ ਪੰਜਾਬੀਆਂ ਲਈ ਵਿਸਾਖੀ ਮਹੱਤਵਪੂਰਨ ਦਿਹਾੜਾ ਹੈ।

ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਆਰੰਭ ਭਾਈ ਵੀਰ ਸਿੰਘ ਦੀ ਰਚਨਾ ਨਾਲ ਹੋਇਆ। ਭਾਈ ਵੀਰ ਸਿੰਘ ਦਾ ਜਨਮ 1872 ਵਿੱਚ ਹੋਇਆ। ਇਸੇ ਸਾਲ ਹੀ ਸਿੰਘ ਸਭਾ ਲਹਿਰ ਹੋਂਦ ਵਿੱਚ ਆਉਂਦੀ ਹੈ, ਜਿਸ ਨੇ ਅੱਗੇ ਚਲ ਕੇ ਭਾਈ ਵੀਰ ਸਿੰਘ ਨੂੰ ਪ੍ਰਭਾਵਿਤ ਕੀਤਾ ਅਤੇ ਭਾਈ ਸਾਹਿਬ ਦੇ ਵਿਚਾਰਾਂ ਦਾ ਪ੍ਰਭਾਵ ਕਬੂਲਿਆ ਵੀ।

ਯੂਨਿਟ-II

4. ਹੇਠ ਲਿਖੇ ਅੰਗਰੇਜ਼ੀ ਸ਼ਬਦਾਂ ਵਿੱਚੋਂ ਕਿਸੇ ਪੰਜ ਦਾ ਪੰਜਾਬੀ ਅਨੁਵਾਦ ਕਰੋ:

Data, Enter, Processing, Gap, Escape, Firewall, Artificial Intelligence.

5. ਹੇਠ ਲਿਖੇ ਮੁਹਾਵਰਿਆਂ ਵਿੱਚੋਂ ਕੋਈ ਪੰਜ ਹੱਲ ਕਰੋ: $5 \times 2 = 10$

(ੳ) ਸਿਰ ਮਾਰਨਾ

(ਅ) ਗੰਢ ਭੇਜਣਾ

(ੲ) ਚਾਂਦੀ ਦੀ ਜੁੱਤੀ ਮਾਰਨਾ

(ਸ) ਡੰਡੇ ਵਜਾਉਣਾ

(ਹ) ਥਰ ਥਰ ਕੰਬਣਾ

(ਕ) ਦਿਨ-ਰਾਤ ਇੱਕ ਕਰਨਾ

(ਖ) ਦੰਦ ਖੱਟੇ ਕਰਨਾ।

6. ਹੇਠ ਲਿਖੇ ਵਿਸ਼ਿਆਂ ਵਿੱਚੋਂ ਕਿਸੇ ਇੱਕ ਵਿਸ਼ੇ ਤੇ ਪੱਤਰ ਲਿਖੋ: 5
- (ੳ) ਕਿਸੇ ਸਰਕਾਰੀ ਕਰਮਚਾਰੀ ਵੱਲੋਂ ਮਚਾਈ ਜਾ ਰਹੀ ਧਾਂਦਲੀ ਸੰਬੰਧੀ ਉਸਦੇ ਉਚ-ਅਫ਼ਸਰ ਨੂੰ ਲਿਖਤੀ ਰੂਪ ਵਿੱਚ ਸੂਚਿਤ ਕਰੋ।
- (ਅ) ਕਿਸੇ ਸਪੋਰਟਸ ਫੈਕਟਰੀ ਨੂੰ ਖੇਡਾਂ ਦਾ ਮਾਲ ਸਪਲਾਈ ਕਰਨ ਲਈ ਪੱਤਰ ਲਿਖੋ।

7. ਹੇਠ ਲਿਖੇ ਪੈਰੂ ਦੀ ਸਿਰਲੇਖ ਦੱਸ ਕੇ ਸੰਖੇਪ ਰਚਨਾ ਕਰੋ: 5

ਖੇਡਾਂ ਜੀਵਨ ਦਾ ਅਹਿਮ ਹਿੱਸਾ ਹਨ। ਇਨ੍ਹਾਂ ਦਾ ਮਕਸਦ ਸਿਰਫ ਮਨੋਰੰਜਨ ਹੀ ਨਹੀਂ, ਸਗੋਂ ਸਰੀਰਕ ਅਤੇ ਮਾਨਸਿਕ ਵਿਕਾਸ ਕਰਨਾ ਵੀ ਹੁੰਦਾ ਹੈ। ਖੇਡਾਂ ਨਾਲ ਇਨਸਾਨ ਚੁਸਤ-ਦੁਰੁਸਤ ਅਤੇ ਤੰਦਰੁਸਤ ਰਹਿੰਦਾ ਹੈ। ਇਸ ਨਾਲ ਨਾ ਕੇਵਲ ਸਰੀਰ ਫਿੱਟ ਰਹਿੰਦਾ ਹੈ, ਸਗੋਂ ਮਨ ਵੀ ਪ੍ਰਸੰਨ ਅਤੇ ਚੁਸਤ ਬਣਿਆ ਰਹਿੰਦਾ ਹੈ। ਖੇਡਾਂ ਵਿੱਚ ਭਾਗ ਲੈਣ ਨਾਲ ਵਿਅਕਤੀ ਵਿੱਚ ਸਹਿਯੋਗ, ਟੀਮ ਵਰਕ, ਲੀਡਰਸ਼ਿਪ ਅਤੇ ਆਤਮ ਵਿਸ਼ਵਾਸ ਵਰਗੀਆਂ ਖੂਬੀਆਂ ਵਿਕਸਤ ਹੁੰਦੀਆਂ ਹਨ। ਖਿਡਾਰੀ ਹਾਰ-ਜਿੱਤ ਦੋਹਾਂ ਨੂੰ ਸਵੀਕਾਰ ਕਰਨਾ ਸਿੱਖ ਜਾਂਦਾ ਹੈ, ਜਿਸ ਨਾਲ ਉਹ ਜੀਵਨ ਦੇ ਹਰ ਪੱਖ ਵਿੱਚ ਅੱਗੇ ਵਧਣ ਯੋਗ ਬਣ ਜਾਂਦਾ ਹੈ। ਸਕੂਲਾਂ ਵਿੱਚ ਵੀ ਖੇਡਾਂ ਨੂੰ ਬਹੁਤ ਮਹੱਤਵ ਦਿੱਤਾ ਜਾਂਦਾ ਹੈ। ਵੱਖ-ਵੱਖ ਖੇਡ ਮੁਕਾਬਲੇ ਕਰਵਾਏ ਜਾਂਦੇ ਹਨ, ਜਿਵੇਂ ਕਿ ਕ੍ਰਿਕਟ, ਹਾਕੀ, ਖੋ-ਖੋ, ਕਬੱਡੀ ਅਤੇ ਐਥਲੈਟਿਕਸ ਆਦਿ। ਇਨ੍ਹਾਂ ਨਾਲ ਵਿਦਿਆਰਥੀਆਂ ਦੀ ਸਰੀਰਕ ਕਸਰਤ ਹੁੰਦੀ ਹੈ। ਅਜਕੱਲ ਦੇ ਵਿਦਿਆਰਥੀ ਵੱਧਦੇ ਮੋਬਾਈਲ ਅਤੇ ਟੈਕਨੋਲੋਜੀ ਦੇ ਪ੍ਰਭਾਵ ਕਾਰਨ ਖੇਡਾਂ ਵੱਲੋਂ ਦੂਰ ਹੋ ਰਹੇ ਹਨ, ਜੋ ਚਿੰਤਾ ਦਾ ਵਿਸ਼ਾ ਹੈ। ਸਾਨੂੰ ਚਾਹੀਦਾ ਹੈ ਕਿ ਅਸੀਂ ਹਰ ਰੋਜ਼ ਕੁਝ ਸਮਾਂ ਖੇਡਾਂ ਲਈ ਕੱਡੀਏ, ਤਾਂ ਜੋ ਆਪਣੀ ਸਿਹਤ ਨੂੰ ਬਿਹਤਰ ਬਣਾਈ ਰੱਖੀਏ।