

B.Sc (2016 Course) Com. Sc
30939

NIRA/INDRAYANI-I (CBCS-2016 COURSE) : WINTER 2016
SUBJECT : YOUTH DEVELOPMENT

Day: Saturday
Date: 01-10-2016

Time: 11:00AM TO 2:00P.M.
Max. Marks: 60

N.B:

- 1) All Questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.

Q.1 A) Fill in the blanks with right options: (06)

- i) Generally youth is considered between the age group of -----
i) 14 to 24 ii) 15 to 25 iii) 15 to 35
- ii) Following organization is working for the youth development.
i) Nehru yuva Kendra (NYK) ii) Hariyali
ii) Savali
- iii) India is the Largest democracy in the world and the -----of the country are revolutionary.
i) Farmers ii) Youth iii) Workers
- iv) Around 76% of India's internet users are under the age of ----- years.
i) 20 ii) 35 iii) 25
- v) National youth Day is celebrated on-----
i) 12th Jan ii) 15th Jan iii) 14th Nov
- vi) Youth in India constitutes ----- of total population.
i) One fifth ii) One third iii) One forth

- B) Answer in One sentence: (06)
- i) Nehru Yava Kendra (NYK) works under which central ministry?
 - ii) Do you agree with that youth consists both male and female youth?
 - iii) Mention any major two NGOs working on the issues of youth.
 - iv) Define social change.
 - v) Sexuality high risk behavior means -----
 - vi) Who is present HRD minister of India.

Q.2 Attempt ANY THREE of the following: (12)

- a) Explain "situational analysis of Indian youth".
- b) Describe "youth as an agent of social change".
- c) Write a detail note on contemporary Indian youth movements.
- d) Explain the role of youth in nation building.

Q.3 Attempt ANY FOUR of the following: (12)

- a) State the educational provisions in policy for youth in India.
- b) Explain the Non Governmental (NGOs) initiatives for youth development.
- c) Explain the causes of high risk behavior among youth.
- d) Highlight the major role of United Nations Organization in youth development.
- e) State Dalit youth movements.

Q.4 Attempt ANY TWO of the following: (12)

- a) Define the concept of youth and state its characteristics.
- b) Highlight the problems of Rural youth in India.
- c) Critically Evaluate the youth policy of India.

Q.5 Attempt ANY TWO of the following: (12)

- a) Highlight the contribution of youth in eradication of social problems.
- b) Write the contribution of youth movement in India.
- c) Explain the issues of Backward class youth in India.

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- vi) Youth in India constitutes ----- of total population.
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- a) Highlight the contribution of youth in eradication of social problems.
- b) Write the contribution of youth movement in India.
- c) Explain the issues of Backward class youth in India.

31184

INDRAYANI – I (2016 COURSE) (CBCS): WINTER – 2016
SUBJECT : ELECTIVE – I: COMPUTER ORIENTED STATISTICAL TECHNIQUES – I

Day : Thursday
Date : 20/10/2016

Time : 11.00 A.M. TO 02.00 PM
Max. Marks : 60

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labeled diagrams **WHEREVER** necessary.
- 4) Use of logarithmic tables, statistical tables and pocket calculator is **ALLOWED**.

Q.1 A) Choose the correct alternative: [06]

- a) The arithmetic mean of first n natural numbers is
- i) $\frac{n}{2}$ ii) $\frac{n+1}{2}$ iii) $\frac{n-1}{2}$ iv) $\frac{(n+1)(2n+1)}{6}$
- b) Less than cumulative frequencies of the
- i) first class is zero iii) first class is the total frequency
ii) last class is zero iv) last class is the total frequency
- c) If $\bar{x} = 10$ and coefficient of variation = 40% then the variance is
- i) 4 ii) 8 iii) 16 iv) 12
- d) For positively skew distribution
- i) left tail is elongated iii) both tails are equally elongated
ii) right tail is elongated iv) none of the above
- e) The two regression lines intersect at
- i) $(0, 0)$ ii) (σ_x, σ_y) iii) (\bar{x}, \bar{y}) iv) none of the above
- f) If $b_{yx} = b_{xy}$ then
- i) $r = 1$ ii) $r = -1$ iii) $r = 0$ iv) $\sigma_x = \sigma_y$

B) Attempt the following: [06]

- a) For the following set of data, find value of variance:
7, 7, 7, 7, 7, 7, 7
- b) State the type of graph to compute mode.
- c) Define r^{th} order central moment.
- d) Give an example where correlation coefficient is observed to be negative.
- e) If correlation coefficient between X and Y is 0.85, find that between $X - 10$ and $Y + 15$.
- f) If $\text{Cov}(X, Y) = 20$ then find $\text{Cov}(Y, X)$.

Q.2 Attempt ANY THREE of the following: [12]

- a) Describe the scope of statistics in the field of industry.
- b) Coefficient of variation of two groups are respectively 40% and 50% and their standard deviations are 16 and 20. Find their arithmetic means.

P.T.O.

c) Draw frequency polygon and frequency curve for the following data:

Class	60 – 70	70 – 80	80 – 90	90 – 100	100 – 110	110 – 120	120 – 130
frequency	21	37	51	49	21	13	7

d) If X and Y are uncorrelated variables with same variances, find correlation coefficient between X and X + Y.

Q.3 Attempt ANY FOUR of the following: [12]

a) Given that A.M = 160, Mode = 157, $\sigma = 50$.
Find: i) Karl Pearsons's coefficient of skewness (S_K) ii) Median.

b) Given: $\mu'_1 = 1$, $\mu'_2 = 5$, $\mu'_3 = 20$, find β_1 .

c) Prepare frequency distribution for the following data:

Midpoint	4	8	12	16	20
Frequency	24	45	20	10	1

d) Explain the terms: frequency density and relative frequency.

e) Write note on skewness.

Q.4 Attempt ANY TWO of the following: [12]

a) State the properties of correlation coefficient.

b) Compute the mode and median for the following frequency distribution:

Class	40 – 60	60 – 80	80 – 100	100 – 120	120 - 140
frequency	6	12	17	10	5

c) Discuss the effect of change of origin and scale on variance.

Q.5 Attempt ANY TWO of the following: [12]

a) Following is the information about the bivariate frequency distribution:
 $n = 20$, $\Sigma x = 20$, $\Sigma y = 40$, $\Sigma x^2 = 1680$, $\Sigma y^2 = 320$, $\Sigma xy = 420$.

i) Obtain the regression lines.

ii) Estimate Y for X = 3.

b) Compute the quartile deviation for the following data:

Class	0 – 10	10 – 20	20 – 30	30 – 40	40 – 50	50 – 60
frequency	5	9	15	21	6	4

c) What is measure of central tendency? What are the different types of measures of central tendency?

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31184

INDRAYANI – I (2016 COURSE) (CBCS): WINTER – 2016
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Max. Marks : 60

N.B.:

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- c) If $\bar{x} = 10$ and coefficient of variation = 40% then the variance is
- i) 4 ii) 8 iii) 16 iv) 12
- d) For positively skew distribution
- i) left tail is elongated iii) both tails are equally elongated
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- e) The two regression lines intersect at
- i) $(0, 0)$ ii) (σ_x, σ_y) iii) (\bar{x}, \bar{y}) iv) none of the above
- f) If $b_{yx} = b_{xy}$ then
- i) $r = 1$ ii) $r = -1$ iii) $r = 0$ iv) $\sigma_x = \sigma_y$

B) Attempt the following: [06]

- a) For the following set of data, find value of variance:
7, 7, 7, 7, 7, 7, 7
- b) State the type of graph to compute mode.
- c) Define r^{th} order central moment.
- d) Give an example where correlation coefficient is observed to be negative.
- e) If correlation coefficient between X and Y is 0.85, find that between $X - 10$ and $Y + 15$.
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c) What is measure of central tendency? What are the different types of measures of central tendency?

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31186

INDRAYANI – I (2016 COURSE) (CBCS): WINTER – 2016
SUBJECT : ELECTIVE – I: ELEMENTARY ALGORITHMICS

Day : Monday
Date : 24/10/2016

Time : 11.00 A.M. TO 02.00 PM
Max. Marks : 60

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labeled diagrams **WHEREVER** necessary.

- Q.1 A) Select the correct option and rewrite the complete sentence: [06]
- a) Selection sort first finds the _____ element in the list and put it in the first position.
i) Middle ii) Largest iii) Last iv) Smallest
 - b) Full form of LCM is _____.
i) List Common Division iii) Last Common Division
ii) Least Common Divisor iv) None of these
 - c) The Average case occurs in linear search algorithm _____.
i) When item is somewhere in the middle of the array.
ii) When item is not the array at all.
iii) When item is the last element in the array.
iv) Item is the not last element.
 - d) Symbol indicates _____ in flow chart.
i) Connector ii) Input/output iii) Process iv) Terminal
 - e) Pseudo code is used for _____.
i) Program flow iii) Control program
ii) To make structure chart iv) To write program
 - f) Factorial of 5 is _____.
i) 120 ii) 15 iii) 25 iv) 50
- B) Answer all the questions in one sentence: [06]
- a) Give syntax of for loop.
 - b) Write if statement to check given non-zero element is positive or negative.
 - c) Define program.
 - d) Give the names of problem solving techniques.
 - e) Which is the palindrome string?
 - f) What is an array?
- Q.2 Answer ANY THREE of the following: [12]
- a) Draw a flowchart for finding average of 'n' numbers using an array.
 - b) Explain characteristics of algorithm with advantages and disadvantages.
 - c) Write a pseudo code for storing name in an array and count total number of characters in it.
 - d) Draw flowchart to calculate net salary of an employee.
- Q.3 Answer ANY FOUR of the following: [12]
- a) Write an algorithm to check a given number is Armstrong or not.
 - b) Explain if statements with proper example.
 - c) Write a pseudo code for finding addition of digits for given number.
 - d) Write an algorithm to find sum of first 20 even and odd number separately.
 - e) Explain Insertion sort with an example.
- Q.4 Answer ANY TWO of the following: [12]
- a) Explain the binary search with an example.
 - b) Write a pseudo code for finding LCM of two numbers.
 - c) Explain procedure oriented language
- Q.5 Answer ANY TWO of the following: [12]
- a) Write an algorithm and flowchart to check given number is prime or not.
 - b) Write a recursive concept with suitable example.
 - c) What is pseudo code? Explain the declaration and structure of pseudo code with proper example.

31186

INDRAYANI – I (2016 COURSE) (CBCS): WINTER – 2016
SUBJECT : ELECTIVE – I: ELEMENTARY ALGORITHMICS

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Max. Marks : 60

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31185

INDRAYANI-I (CBSC-2016 COURSE): WINTER-2016
SUBJECT: ELECTIVE-I - COMPULSORY ENGLISH-I

Day : Saturday
Date : 22-10-2016

Time: 11:00 AM TO 2:00 PM.
Max. Marks: 60.

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate full marks.

Q.1 A) Fill in the blanks with appropriate articles (a, an, the) and rewrite the sentences (ANY SIX) (06)

- 1) Please don't move _____ book on that table.
- 2) The Sun rises in _____ east.
- 3) My mother is _____ English teacher.
- 4) New York is _____ city, full of adventures.
- 5) It is my daily practice to read _____ book before I go to sleep.
- 6) Let us discuss _____ problem very seriously.
- 7) Honesty is _____ best policy.
- 8) _____ apple a day keeps the doctor away.

B) Fill in the blanks with appropriate prepositions and rewrite the sentences (ANY SIX) (06)

- 1) She painted a beautiful picture _____ her bedroom wall.
i) on ii) above iii) in
- 2) My friend from Kolkata will arrive _____ Mumbai airport tomorrow.
i) on ii) at iii) in
- 3) Do you have some water _____ your water bag?
i) in ii) at iii) for
- 4) He can hold his breath _____ eight minutes under water.
i) for ii) at iii) in
- 5) The Commerce College is located _____ MG Road.
i) on ii) at iii) over
- 6) All students were busy _____ their home assignments.
i) during ii) in iii) for
- 7) As my fingers were injured, my brother wrote a note _____ me.
i) on ii) for iii) in
- 8) She usually travels back her home from the college _____ bus.
i) by ii) in iii) on

Q.2 A) Fill in the blanks with the correct word (ANY SIX) (06)

- 1) Tukdoji Maharaj has written a book called _____.
i) Gram-Geeta ii) Bhagwat-Geeta iii) Geetai
- 2) Max Eastman compares the famous sermon of Gautam Buddha with _____.
i) Sermon of the Mount ii) Sermon of the Hill iii) Sermon of the Sea
- 3) In _____ alone lies the key to eternal happiness.
i) perfection ii) imperfection iii) progress
- 4) _____ is the personal secretary of Maxwell.
i) Lucy ii) Leslie iii) Pitcher

P.T.O.

- 5) Kalpana Chawala was fondly called as _____ at home
 i) Montu ii) Dodi iii) Chinu
- 6) In Tagore's poem, the words 'thee' and 'my father' refer to _____.
 i) God ii) Devil iii) Poet's father
- 7) The heart of the young man urges the Palmist to not to tell him that 'Life is but an _____',
 i) Empty dream ii) Sweet dream iii) Horrible dream
- 8) Lord Ullin's daughter and her lover are trying to escape from _____.
 i) cave ii) hill iii) Lord's Ullin's home

B) Answer in ONE sentence (ANY SIX) (06)

- 1) How Tukdoji Maharaj defines perfection?
- 2) What we can still see in Buddha Gaya?
- 3) Which three trades did the old pin-makers have to know?
- 4) Why does Leslie react strangely when Maxwell proposes her?
- 5) Which shuttle was taken by Kalpana for her voyage?
- 6) Who is the speaker in the poem 'The Mirror'?
- 7) What is the face of the Squirrel compared with?
- 8) With whom Lord Ullin's daughter elopes?

Q.3 Attempt ANY TWO of the following: (12)

- a) Tukdoji Maharaj's philosophy on 'Universal Brotherhood.'
- b) Write a note on Buddha's Enlightenment and Middle way.
- c) Explain Kalpana Chawla's making her career at NASA.

Q.4 Critically appreciate ANY TWO of the following: (12)

- a) 'Where the Mind is Without Fear' by Rabindranath Tagore
- b) 'A Psalm of Life' by H. W. Longfellow
- c) 'Curious Mishap' by Vikram Seth

Q.5 Write short notes on ANY TWO of the following: (12)

- a) Argument advanced by G. B. Shaw through 'Accumulation of Wealth...'
- b) Harvey Maxwell as a Busy Broker
- c) Mirror as the eye of a little God
- d) Love story in 'Lord Ullin's Daughter'

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31185

INDRAYANI-I (CBSC-2016 COURSE): WINTER-2016
SUBJECT: ELECTIVE-I - COMPULSORY ENGLISH-I

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- 1) Please don't move _____ book on that table.
- 2) The Sun rises in _____ east.
- 3) My mother is _____ English teacher.
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 i) cave ii) hill iii) Lord's Ullin's home

B) Answer in ONE sentence (ANY SIX)

(06)

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