

Code No.

L – 4034

**Entrance Examination for Admission to the P.G. Courses
in the Teaching Departments, 2021**

CSS

DEMOGRAPHY AND BIOSTATISTICS

General Instructions

1. The Question Paper is having two Parts — Part 'A' Objective type (60%) & Part 'B' Descriptive type (40%).
2. Objective type questions which carry 1 mark each are to be (✓) 'tick marked' in the response sheets against the appropriate answers provided.
3. 8 questions are to be answered out of 12 questions carrying 5 marks each in Part 'B'.
4. **Negative marking** : 0.25 marks will be deducted for each wrong answer in Part 'A'.

Time : 2 Hours

Max. Marks : 100

| | | | | | | | | | |
|----------------------------------|------------|--|--|--|--|--|--|--|--|
| To be filled in by the Candidate | | | | | | | | | |
| Register Number | in Figures | | | | | | | | |
| | in words | | | | | | | | |

PART – A

(Objective Type)

Choose appropriate answer from the options in the questions. **One mark each.**

(60 × 1 = 60)

1. In India, the Census operation is taking place in every ten years. the uninterrupted Census operations started in India since
a) 1941 b) 1951 c) 1871 d) 1881

DO NOT WRITE HERE

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2. What is the total population of India according to 2011 census?
a) 122 crore b) 121 crore c) 102 crore d) 112 crore
3. World Population day is celebrated all over the worlds on
a) July 11 b) November 14 c) April 7 d) May 3
4. The World Health Day is a global health awareness day celebrated every year on _____.
a) March 8 b) November 14 c) April 7 d) May 3

21. Which Government Ministry is conducting Census Operations in India?
- a) Health and Family Welfare
 - b) Human Resource Development
 - c) Local Self Government
 - d) Home Affairs
22. Which one of the following is NOT an example of an institution?
- a) Marriage
 - b) Peer group
 - c) Family
 - d) Religion
23. What is the most commonly used measure of dispersion?
- a) Mean
 - b) Median
 - c) Mean deviation
 - d) Variance
24. Number of males per for hundred females
- a) Sex ratio
 - b) Dependency ratio
 - c) Age structure
 - d) None
25. _____ has highest percent of old age population in the world.
- a) Japan
 - b) Norway
 - c) Kenya
 - d) India
26. Fertility is affected by
- a) Contraceptives
 - b) Age at marriage
 - c) Maternal morbidity
 - d) All the above
27. The person who is coined word Demography
- a) August comte
 - b) Achille Guillard
 - c) Karl marx
 - d) Emile Durkheims

28. The components of population change are
- a) Fertility
 - b) Mortality
 - c) Migration
 - d) All the above
29. Who is known as the father of demography?
- a) John Graunt
 - b) Karl Marx
 - c) Malthus
 - d) Achille Guillard
30. A numerical value used as a summary measure for a Sample, such as sample mean is known as a
- a) Population parameter
 - b) Sample parameter
 - c) Sample statistic
 - d) Population mean
31. The sum of the percent frequencies for all classes will always equal
- a) one
 - b) the number of classes
 - c) the number of items in the study
 - d) 100
32. Research is
- a) Searching again and again
 - b) Finding solution to any problem
 - c) Working in a Scientific way to search for truth of any problem
 - d) None of the above
33. Which of the following is the first step in starting the research process?
- a) Searching sources of information to locate problem
 - b) Survey of related literature
 - c) Identification of problem
 - d) Searching for solutions to the problem

34. Action research means
- a) A longitudinal research
 - b) A research initiated to solve an immediate problem
 - c) An applied research
 - d) A research with socioeconomic objective
35. An appropriate source to find out descriptive information is
- a) Bibliography
 - b) Directory
 - c) Encyclopedia
 - d) Dictionary
36. Malnutrition means
- a) Under Nutrition
 - b) Specific deficiency
 - c) Over nutrition
 - d) All the above
37. Which Census onwards 0-6 age group is considered as illiterate population in India?
- a) 1981
 - b) 1991
 - c) 2001
 - d) 1961
38. According to the Sample Registration Bulletin December 2011, which among the following States has lowest infant mortality rate?
- a) Kerala
 - b) Goa
 - c) Manipur
 - d) Tripura
39. Among the following States, which has highest percentage decadal growth rate during the 2001 – 2011?
- a) Arunachal Pradesh
 - b) Bihar
 - c) Rajasthan
 - d) Madhya Pradesh
40. Which among the following is not a non-probability sampling?
- a) Accidental Sampling
 - b) Purposive Sampling
 - c) Quota Sampling
 - d) Simple Random Sampling

41. The mean length of generation is affected by
- Age specific fertility rate and reproductive span of women
 - Gross reproduction rate and average age of women giving birth
 - Overall fertility and mortality levels and the proportional distribution of fertility into each age specific rate
 - Survival of female babies born to those mothers and age of their marriage
42. Which of the following countries has the highest out migration of the nursing professionals?
- The Philippines
 - Pakistan
 - Bhutan
 - India
43. Which of the following is not a measure of socio-economic status?
- Physical Quality of Life Index
 - Human Development Index
 - Gender Empowerment Measure
 - Body Mass Index
44. In which year, the Government of India launched the Reproductive and Child Health (RCH-I) Programme?
- 1994
 - 1995
 - 1996
 - 1993
45. Quality of urban environment is determined by which of the following?
- Size of the urban population
 - Size of the urban settlement
 - Geographical setting
 - Traffic flow
46. Maximum female migration in India is observed in
- Rural to Rural Stream
 - Rural to Urban Stream
 - Urban to Urban Stream
 - Urban to Rural Stream
47. Who among the following Demographers has presented first the Theory of Demographic Transition in an almost mature form with explanation for the changes in fertility?
- Landry
 - Warren Thompson
 - Frank W. Notestein
 - C.P. Blacker

48. When India Government has adopted Family Planning Programme?
 a) 1952 b) 1951 c) 1953 d) 1949
49. Which one of the following numerator adjustment method is used in computing infant mortality rate?
 a) $IMR_2 = [(DS_2 + DP_2) / B_2] \times 1000$
 b) $IMR_2 = [(DP_2 / B_1) + (DS_2 / B_2)] \times 1000$
 c) $IMR_2 = \{[D_2 (1 - f)] / B_2 + fD_2 / B_1\} \times 1000$
 d) $IMR_2 = \{D_2 / [(1 - f)B_2 + fB_1]\} \times 1000$
50. Full child immunizations cover the following immunizations. Code the correct combination.
 a) BCG + Polio + DPT + Measles
 b) BCG + 3 Polio + At least one DPT + Measles
 c) BCG + At least one Polio + At least one DPT + Measles
 d) BCG + 3 Polio + 3 DPT + Measles
51. Out of eight Millennium Development Goals (MDGs). How many of them relate to the health sector?
 a) One b) Two c) Three d) Four
52. The headquarter of the International Red Cross is situated in
 a) Vienna b) Paris
 c) Hague d) Geneva
53. Which UN body deals with population problem?
 a) UNFPA b) UNDP c) UNICEF d) UNESCO
54. How many subsets does the set {a, b, c, d, e} have?
 a) 2 b) 5 c) 10 d) 32

55. The Sample Registration System (SRS) has been providing reliable estimates of which among the following?
- a) Fertility only
 - b) Mortality only
 - c) Both Fertility and Mortality
 - d) None among the above
56. Who proposed Threshold Hypothesis in Fertility? www.netugc.com
- a) Becker
 - b) Dumont
 - c) United Nations Organisation
 - d) Caldwell
57. Which among the following is not a natural contraceptive method?
- a) Coitus interrupts
 - b) Celibacy
 - c) IUCD
 - d) Periodic Abstinence
58. United Nations Age-Sex accuracy Index considers
- a) Mean deviations at the age ratios for males from 100
 - b) Mean deviations of the age ratios for females from 100
 - c) Three times the mean of the age differences as reported sex ratios
 - d) All the above
59. Which one among the following is not matched correctly?
- a) Life table: Age Specific Death Rates
 - b) Usage of Contraception: Couple Protection Rate
 - c) Crude Death Rate: Child Women Ratio
 - d) Age Specific Fertility Rate: Total Fertility Rate
60. Simon's Model is consistent with
- a) Population self-sufficiency and constant economic growth
 - b) Low fertility and mortality
 - c) A laissez-faire population policy
 - d) Economies of scale

ANSWER SHEET — PART — A

| | | | | | |
|----|---|---|---|---|---|
| 1 | A | B | C | D | E |
| 2 | A | B | C | D | E |
| 3 | A | B | C | D | E |
| 4 | A | B | C | D | E |
| 5 | A | B | C | D | E |
| 6 | A | B | C | D | E |
| 7 | A | B | C | D | E |
| 8 | A | B | C | D | E |
| 9 | A | B | C | D | E |
| 10 | A | B | C | D | E |
| 11 | A | B | C | D | E |
| 12 | A | B | C | D | E |
| 13 | A | B | C | D | E |
| 14 | A | B | C | D | E |
| 15 | A | B | C | D | E |
| 16 | A | B | C | D | E |
| 17 | A | B | C | D | E |
| 18 | A | B | C | D | E |
| 19 | A | B | C | D | E |
| 20 | A | B | C | D | E |

| | | | | | |
|----|---|---|---|---|---|
| 21 | A | B | C | D | E |
| 22 | A | B | C | D | E |
| 23 | A | B | C | D | E |
| 24 | A | B | C | D | E |
| 25 | A | B | C | D | E |
| 26 | A | B | C | D | E |
| 27 | A | B | C | D | E |
| 28 | A | B | C | D | E |
| 29 | A | B | C | D | E |
| 30 | A | B | C | D | E |
| 31 | A | B | C | D | E |
| 32 | A | B | C | D | E |
| 33 | A | B | C | D | E |
| 34 | A | B | C | D | E |
| 35 | A | B | C | D | E |
| 36 | A | B | C | D | E |
| 37 | A | B | C | D | E |
| 38 | A | B | C | D | E |
| 39 | A | B | C | D | E |
| 40 | A | B | C | D | E |

| | | | | | |
|----|---|---|---|---|---|
| 41 | A | B | C | D | E |
| 42 | A | B | C | D | E |
| 43 | A | B | C | D | E |
| 44 | A | B | C | D | E |
| 45 | A | B | C | D | E |
| 46 | A | B | C | D | E |
| 47 | A | B | C | D | E |
| 48 | A | B | C | D | E |
| 49 | A | B | C | D | E |
| 50 | A | B | C | D | E |
| 51 | A | B | C | D | E |
| 52 | A | B | C | D | E |
| 53 | A | B | C | D | E |
| 54 | A | B | C | D | E |
| 55 | A | B | C | D | E |
| 56 | A | B | C | D | E |
| 57 | A | B | C | D | E |
| 58 | A | B | C | D | E |
| 59 | A | B | C | D | E |
| 60 | A | B | C | D | E |

DEMOGRAPHY AND BIostatISTICS

PART – B

(Descriptive Type)

Answer **any eight** questions.

(8 × 5 = 40 Marks)

1. Explain in brief the guiding principles in selection of research problem.
2. Explain the relation between population and environment.
3. What do you mean by women empowerment?
4. Give an elaborate account of Hypothesis.
5. How stigma and discrimination affects people living with HIV?
6. Bring out some emerging issues on Elderly care.
7. Discuss in details about 'Descriptive statistics'.
8. Definition of sampling and discuss the advantages of sampling.
9. Infant Mortality — Discuss.
10. Primary Data Sources.
11. What are the factors responsible for over population in India?
12. Write short notes on Census in India.

