# UGC NET Paper 1 – 25 June Evening

**1. Read the following passage and answer the questions that follow.**

The following table shows the headcount by gender : male, female, and transgender for five years from 2020 to 2024 for a locality, along with the total population of the locality and increase (+) or decrease (−) in the total population over the preceding year. Based on the data in the table, answer the questions that follow

Year-wise Demographic profile of the Population

| Year | Number of Males | Number of Females | Number of Transgenders | Total population | Increase (+) or Decrease (-) in Total population over the preceding year |
|---|---|---|---|---|---|
| 2020 | 32552 | 30193 | - | 63473 | - |
| 2021 | 35195 | 31258 | - | - | +(3815) |
| 2022 | - | 31571 | 1012 | 66461 | - |
| 2023 | 34698 | - | 1160 | - | −(2212) |
| 2024 | 35638 | 32967 | 1204 | 69809 | - |

The symbol '__' represents a missing value that can be computed, if required.

What was the number of Transgenders in 2020?
1. 528
2. 628
3. 728
4. 828

**2. Read the following passage and answer the questions that follow.**

The following table shows the headcount by gender : male, female, and transgender for five years from 2020 to 2024 for a locality, along with the total population of the locality and increase (+) or decrease (−) in the total population over the preceding year. Based on the data in the table, answer the questions that follow

Year-wise Demographic profile of the Population

| Year | Number of Males | Number of Females | Number of Transgenders | Total population | Increase (+) or Decrease (-) in Total population over the preceding year |
|---|---|---|---|---|---|
| 2020 | 32552 | 30193 | - | 63473 | - |
| 2021 | 35195 | 31258 | - | - | +(3815) |
| 2022 | - | 31571 | 1012 | 66461 | - |
| 2023 | 34698 | - | 1160 | - | −(2212) |
| 2024 | 35638 | 32967 | 1204 | 69809 | - |

The symbol '__' represents a missing value that can be computed, if required.

The number of Transgenders in 2021 is approximately _____% more than those in 2020.
1. 14.7
2. 15.7
3. 16.7
4. 17.7

**3. Read the following passage and answer the questions that follow.**

The following table shows the headcount by gender : male, female, and transgender for five years from 2020 to 2024 for a locality, along with the total population of the locality and increase (+) or decrease (−) in the total population over the preceding year. Based on the data in the table, answer the questions that follow

Year-wise Demographic profile of the Population

| Year | Number of Males | Number of Females | Number of Transgenders | Total population | Increase (+) or Decrease (-) in Total population over the preceding year |
|---|---|---|---|---|---|
| 2020 | 32552 | 30193 | - | 63473 | - |
| 2021 | 35195 | 31258 | - | - | +(3815) |
| 2022 | - | 31571 | 1012 | 66461 | - |
| 2023 | 34698 | - | 1160 | - | −(2212) |
| 2024 | 35638 | 32967 | 1204 | 69809 | - |

The symbol '__' represents a missing value that can be computed, if required.

The number of females in 2023 is approximately _____% of the number of females in 2021.

1. 92.23
2. 98.25
3. 94.73
4. 90.83

**4. Read the following passage and answer the questions that follow.**

The following table shows the headcount by gender : male, female, and transgender for five years from 2020 to 2024 for a locality, along with the total population of the locality and increase (+) or decrease (−) in the total population over the preceding year. Based on the data in the table, answer the questions that follow

Year-wise Demographic profile of the Population

| Year | Number of Males | Number of Females | Number of Transgenders | Total population | Increase (+) or Decrease (-) in Total population over the preceding year |
|---|---|---|---|---|---|
| 2020 | 32552 | 30193 | - | 63473 | - |
| 2021 | 35195 | 31258 | - | - | +(3815) |
| 2022 | - | 31571 | 1012 | 66461 | - |
| 2023 | 34698 | - | 1160 | - | −(2212) |
| 2024 | 35638 | 32967 | 1204 | 69809 | - |

The symbol '__' represents a missing value that can be computed, if required.

The increase in the total population in 2024 over 2023 is _____.

1. 5460
2. 5560
3. 5660
4. 5760

**5. Read the following passage and answer the questions that follow.**

The following table shows the headcount by gender : male, female, and transgender for five years from 2020 to 2024 for a locality, along with the total population of the locality and increase (+) or decrease (−) in the total population over the preceding year. Based on the data in the table, answer the questions that follow

Year-wise Demographic profile of the Population

| Year | Number of Males | Number of Females | Number of Transgenders | Total population | Increase (+) or Decrease (-) in Total population over the preceding year |
|---|---|---|---|---|---|
| 2020 | 32552 | 30193 | - | 63473 | - |
| 2021 | 35195 | 31258 | - | - | +(3815) |
| 2022 | - | 31571 | 1012 | 66461 | - |
| 2023 | 34698 | - | 1160 | - | −(2212) |

| Year | Number of Males | Number of Females | Number of Transgenders | Total population | Increase (+) or Decrease (-) in Total population over the preceding year |
|---|---|---|---|---|---|
| 2024 | 35638 | 32967 | 1204 | 69809 | - |

The symbol '__' represents a missing value that can be computed, if required.

The average number of females in the locality during 2020 to 2024 is _____.
1. 30876
2. 31340
3. 32230
4. 33450

**6.** The process of learner-centered assessment involves _____.
1. learner-centered assessment related to teaching objectives.
2. multiple data sources.
3. passive involvement of learners in assessment process.
4. Single model of learner-centered assessment

**7.** According to Pedaste, what is the correct sequence of the various stages of Inquiry Based Instruction?
A. Investigation
B. Discussion
C. Conclusion
D. Orientation
E. Conceptualization
Choose the **correct** answer from the options given below:
1. B, C, A, D, E
2. D, E, A, C, B
3. A, B, C, D, E
4. C, D, E, B, A

**8.** Implementation of the project strategy follows the following sequence of steps.
A. Execution of the Project.
B. Choosing and purposing of the project.
C. Planning of the project.
D. Recording of the project.
E. Evaluation of the project.
Choose the **correct** answer from the options given below:
1. B, C, A, E, D
2. C, B, D, A, E
3. A, C, B, D, E
4. C, B, A, D, E

**9.** Measures that can solve many general problems in a classroom are
A. Reinforcing good behavior
B. Teacher centered classroom rules
C. Conducting cooperative learning strategies
D. Discontinuous communication with parents
Choose the **correct** answer from the options given below:
1. B & D only
2. A & C only
3. A & D only
4. B & C only

**10.** Match the **LIST-I** with **LIST-II**

**LIST-I – (Nature of Teaching)**

A. Complex social process

B. Interactive process

C. Professional Activity

D. Having various forms and style

**LIST-II – (Characteristics of Teaching)**

I. Student-teacher together attain the objective

II. Student develops as an independent individual after education

III. Influenced by social factors

IV. Teaching may be formal, informal or non-formal

Choose the ***correct*** answer from the options given below:

1. A-II, B-III, C-I, D-IV
2. A-IV, B-III, C-II, D-I
3. A-I, B-II, C-III, D-IV
4. A-III, B-I, C-II, D-IV

**11.** DOI is a unique identifier assigned to a published research article in APA ($7^{th}$ Ed) style of referencing. What does DOI stand for?

1. Document Organization Identifier
2. Digital Object Identifier
3. Data Organization Identifier
4. Digital Objective Identifier

**12.** Mean (μ) and Variance ($\sigma^2$) for four different Binomial distributions are given in A-D below. Determine the number of trials for each of these distributions and arrange them in ascending order.

A. $\mu = 5, \sigma^2 = 4$

B. $\mu = 5, \sigma^2 = 2.5$

C. $\mu = 9, \sigma^2 = 6$

D. $\mu = 12, \sigma^2 = 9$

Choose the **correct** answer from the options given below:

1. C, A, B, D
2. A, D, C, B
3. B, A, C, D
4. D, A, C, B

**13.** Identify the correct order of the steps (A-E) involved in a research process.

A. Collecting data for study

B. Defining the research question

C. Choosing a topic

D. Conducting a literature review

E. Creating a research design

Choose the **correct** answer from the options given below:

1. D, C, B, E, A
2. B, C, D, E, A
3. C, D, B, E, A
4. D, A, E, C, B

**14.** Which of the following are the characteristics of predatory research Publishers/Journals?
A. Lack of genuine peer review
B. Aggressive solicitation
C. Rapid publication promises
D. Clear retraction policy
Choose the **correct** answer from the options given below:
1. A, B and C only
2. B and D only
3. C and D only
4. A, B, C and D

**15.** Match the **LIST-I** with **LIST-II**
**LIST-I – (Levels of measurement)**
A. Ratio
B. Ordinal
C. Interval
D. Nominal
**LIST-II – (Examples)**
I. Education level (UG, PG), Satisfaction Rating (Low, Medium, High)
II. Height, Weight, Age (0 kg means no weight)
III. Gender (Male, Female), Hair color (Brown, Black)
IV. Temperature in Celsius or Fahrenheit (0°C does not mean no heat)
Choose the ***correct*** answer from the options given below:
1. A-III, B-I, C-IV, D-II
2. A-IV, B-II, C-III, D-I
3. A-I, B-III, C-II, D-IV
4. A-II, B-I, C-IV, D-III

**16.** Communication requires at least three elements
a. the source
b. the message
c. the destination
According to which of the following communication experts, the above statement is correct?
1. Wilbur Schramm
2. Marshall McLuhan
3. Harold D. Lasswell
4. Denis McQuail

**17.** Who coined the term “Agenda Setting Theory” of mass communication?
1. Berelson and Gaudet
2. L.A. Festinger and Bittner
3. Maxwell McCombs and Donald L. Shaw
4. Melvin De Fleur and Sandra Ball-Rokeach

**18.** Arrange the following communication events, chronologically, according to their year of starting.
A. Beginning of first soap opera Hum Log in India
B. The Gulf coverage by CNN in India
C. The beginning of Satellite Instructional Television Experiment (SITE) in India
D. Beginning of Television in India
Choose the **correct** answer from the options given below:
1. A, B, C, D
2. D, C, A, B
3. D, C, B, A
4. C, D, B, A

**19.** According to Harold D. Lasswell, what is the correct and convenient way to describe an act of communication?
A. To whom
B. Who, says what
C. With what effect
D. In which channel
E. Under what circumstances
Choose the **correct** answer from the options given below:
1. A and E only
2. C, D and E only
3. B, D, A and C only
4. A, C and E only

**20.** Match the **LIST-I** with **LIST-II**
**LIST-I – (Model of communication)**
A. Osgood's model
B. H.D. Lasswell's model
C. Theodore M. Newcomb's model
D. George Gerbner's model
**LIST-II – (year of introduction)**
I. 1948
II. 1954
III. 1956
IV. 1953
Choose the ***correct*** answer from the options given below:
1. A-I, B-II, C-III, D-IV
2. A-II, B-I, C-IV, D-III
3. A-IV, B-III, C-II, D-I
4. A-III, B-IV, C-I, D-II

**21.** In a group of 50 students and 15 teachers, each student gets some bananas equal to 10% of the total number of students in the group. Each teacher also gets some bananas equal to 8% of the total number of students. Find the total number of bananas distributed among students and teachers.
1. 280
2. 310
3. 300
4. 290

**22.** Which of the following is/are correct?
A. Average of first n natural numbers = $\left(\frac{n+1}{3}\right)$
B. Average of n consecutive natural numbers = (n+1)
C. Average of squares of first n natural numbers = $\frac{(n+1)(2n+1)}{6}$
D. The average of first n even numbers = $\frac{\text{last even number}+2}{2}$
Choose the **correct** answer from the options given below:
1. A and B only
2. A, B and C only
3. C and D only
4. B, C and D only

**23.** Arrange the following pairs of data on cost price (CP) and selling price (SP) according to the gain (%) in ascending order:
A. CP = ₹ 50 ; SP = ₹ 54
B. CP = ₹ 150 ; SP = ₹ 180
C. CP = ₹ 250 ; SP = ₹ 330
D. CP = ₹ 300 ; SP = ₹ 375
Choose the **correct** answer from the options given below:
1. D, C, B, A
2. C, D, B, A
3. B, A, D, C
4. A, B, D, C

**24.** In a certain language, if Z is coded as 52 and CAT is coded as 48, then how TALL shall be coded in that language?
1. 96
2. 90
3. 45
4. 95

**25.** Find the number that can replace question mark (?) in the series given below.
13, 15, 18, 23, 30, ?, 54, 71
1. 39
2. 41
3. 43
4. 37

**26.** As per Classical Indian school of logic (Nyāya) arrange the following statements in sequence, as per its view of inference (anumāna)
A. Socrates is a man who is invariably a mortal.
B. Therefore Socrates is a mortal.
C. Whoever is a man is a mortal, e.g., Plato.
D. Socrates is mortal.
E. Because he is a man.
Choose the **correct** answer from the options given below:
1. E, D, B, A, C
2. D, E, C, A, B
3. D, E, A, C, B
4. E, D, C, A, B

**27.** "With all of the hysteria and all of the phony science, could it be that man-made global warming is the greatest hoax ever perpetrated on human beings."
Which fallacy is involved in the above statement?
1. Begging the question
2. Complex question
3. Red Herring
4. False Cause

**28.** "Ice is hot, because it is a substance." According to Nyāya school, which fallacy is involved in the above statement?
1. Svarūpāsiddha
2. Bādhita
3. Viruddha
4. Asādhārana

**29.** "All sparrows are birds. All sparrows are beautiful animals. Therefore all beautiful animals are birds." Identify the fallacy committed in this argument.
1. Illicit process of the minor term
2. Illicit process of the major term
3. Exclusive premises
4. Existential fallacy

**30.** In which of the following propositions the predicate term is distributed
A. All monkeys are primates.
B. Some monkeys are primates.
C. No monkeys are primates.
D. Some monkeys are not primates.
Choose the **correct** answer from the options given below:
1. A and B only
2. B and C only
3. C and D only
4. A and C only

**31.** John McCarthy is widely recognized as a founding "Father of Artificial Intelligence (AI)" because he _____.
1. formally established the field's identity by coining the term "AI" in his 1955 proposal for a conference that took place in 1956.
2. won the Nobel Prize for Computer Science.
3. provided the conceptual blueprint for modern, general-purpose computers well before they were physically constructed.
4. invented the fundamental technologies that allow us to navigate the Internet today

**32.** In the context of Information Technology, which of the following statements A-D are true?
A. A Wireless Access Point (WAP) allows devices with Wi-Fi connectivity to connect to a wired network.
B. A search engine provides users with way to find information in web pages stored on web server.
C. WLAN stands for Wired Local Area Network.
D. An EXCEL workbook may contain multiple worksheets.
Choose the **correct** answer from the options given below:
1. A, B and C only
2. A, B and D only
3. C and D only
4. A, B, C and D

**33.** Identify the correct order of (A-D) to fill in the missing terms in the paragraph given below.
A _____ is a group of two or more interconnected computers. _____ is the on-demand delivery of IT resources over the Internet. _____ describes a network of physical objects with sensors and software that connect and exchange data. _____ refers to the maximum rate at which data can be transferred over a network.
A. IOT
B. Network
C. Cloud Computing
D. Bandwidth
Choose the **correct** answer from the options given below:
1. C, B, D, A
2. B, C, A, D
3. D, A, C, B
4. A, D, B, C

**34.** Which of the following pairs of ICT acronyms and their expansions are correctly matched?
A. USB - Universal Serial Board
B. HDMI - High-Definition Multimedia Interface
C. ROM - Read Only Memory
D. PDF - Portable Document Format
Choose the **correct** answer from the options given below:
1. B, C and D only
2. A, C and D only
3. A and B only
4. A, B, C and D

**35.** Match the **LIST-I** with **LIST-II**
**LIST-I – (Protocol)**
A. HTTP
B. FTP
C. SMTP
D. DHCP
**LIST-II – (Common Use Case)**
I. Sharing/Transferring Files
II. Sending Emails
III. Auto-assigning IP addresses
IV. Accessing Websites
Choose the ***correct*** answer from the options given below:
1. A-IV, B-II, C-III, D-I
2. A-III, B-IV, C-I, D-II
3. A-II, B-III, C-IV, D-I
4. A-IV, B-I, C-II, D-III

**36.** Which of the following is <u>not</u> a flexibility mechanism under Kyoto Protocol for reduction of Greenhouse gas emissions?
1. Joint implementation Mechanism
2. International Emission Trading Mechanism
3. Clean Development Mechanism
4. Nationally Determined Contributions

**37.** Hearing threshold for an ideally healthy person is
1. 0 dB
2. 1 dB
3. 10 dB
4. 20 dB

**38.** Arrange the following Greenhouse gases according to their concentration (ppm) in atmosphere in ascending order
A. Methane
B. Carbon dioxide
C. Nitrous oxide
D. Chlorofluorocarbons
Choose the **correct** answer from the options given below:
1. C, A, D, B
2. C, D, A, B
3. B, A, C, D
4. D, C, A, B

**39.** Which of the following are “Regulating Services” obtained from ecosystem processes?
A. Fuel, fodder and other raw materials
B. Replenishment of natural aquifers
C. Sea food and fishery
D. Carbon sequestration by forests
E. Control of soil erosion
Choose the **correct** answer from the options given below:
1. A, B and C only
2. B, D and E only
3. B, C and D only
4. A, C and E only

**40.** Match the **LIST-I** with **LIST-II**
**LIST-I – (International Efforts)**
A. The Biodiversity Convention
B. Montreal Protocol
C. Paris agreement on Climate change
D. Basel Convention
**LIST-II – (year)**
I. 1989
II. 2015
III. 1992
IV. 1987
Choose the ***correct*** answer from the options given below:
1. A-III, B-II, C-IV, D-I
2. A-IV, B-I, C-III, D-II
3. A-IV, B-II, C-I, D-III
4. A-III, B-IV, C-II, D-I

**41.** Institute of National Importance is a status that may be conferred on a ‘P’ institution in ‘Q’ by an ‘R’. Identify the correct option among the following as per order of P, Q and R.
1. secondary education, India, Act of Parliament
2. primary education, Asia, Act of UNESCO
3. higher education, India, Act of Parliament
4. higher education, Asia, Act of Parliament

**42.** The functions of the National Educational Technology Forum include :
1. funding start ups in technology and science
2. building institutional capacities in educational technology
3. developing AI based systems
4. setting up technology laboratories in institutions.

**43.** Match the **LIST-I** with **LIST-II**

**LIST-I – Research organization**

A. Indian Institute of Science
B. Indian Statistical Institute
C. Raman Research Institute
D. Indian Council of Medical Research

**LIST-II – Year of establishment**

I. 1931
II. 1911
III. 1909
IV. 1943

Choose the ***correct*** answer from the options given below:

1. A-II, B-III, C-I, D-IV
2. A-I, B-II, C-III, D-IV
3. A-IV, B-II, C-I, D-III
4. A-III, B-I, C-IV, D-II

**44.** The Indian Council of Agricultural Research works towards improving

A. Crops
B. Gardens
C. Fisheries
D. Animals

Choose the **correct** answer from the options given below:

1. A, B & C only
2. B, C & D only
3. A, C & D only
4. A, B & D only

**45.** Arrange these Educational initiatives in chronological order-

A. Kothari Commission
B. Radhakrishnan Commission
C. Ramamurti Committee
D. Wardha Conference
E. Mudaliar Commission

Choose the **correct** answer from the options given below:

1. C, B, D, E, A
2. A, C, D, B, E
3. B, C, A, D, E
4. D, B, E, A, C

**46. Read the following passage and then answer the question:**

Creativity is a driver of youthful discovery and expression - but it becomes stifled in deference to proficiencies that are more easily measured and tested. This sidelining of creative learning may reflect larger societal trends. Teachers typically prefer the well-behaved student to the creative one, who is often perceived as rocking the boat. A recent poll found that most Americans want children to have respect for elders over independence, good manners over curiosity, and would prefer them to be well behaved rather than creative.

If we want a bright future for our children, we need to recalibrate our priorities. At the speed the world is changing, the old playbooks for living and working will inevitably be supplanted - and we need to prepare our children to author the new ones. The same cognitive software running in the minds of the NASA engineers and Picasso runs in the minds of our young, but it needs to be cultivated. A balanced education nurtures skills and imagination. That kind of education will pay off decades after students throw their mortarboards in the air and step into a world that we, their parents, can barely foresee.

When creative learning is stifled, it means that
1. well-behaved children are more welcome than creative ones
2. successful children are more welcome than good ones
3. curious children are more welcome than good-mannered ones
4. independence is preferred over respect for older people

**47. Read the following passage and then answer the question:**

Creativity is a driver of youthful discovery and expression - but it becomes stifled in deference to proficiencies that are more easily measured and tested. This sidelining of creative learning may reflect larger societal trends. Teachers typically prefer the well-behaved student to the creative one, who is often perceived as rocking the boat. A recent poll found that most Americans want children to have respect for elders over independence, good manners over curiosity, and would prefer them to be well behaved rather than creative.

If we want a bright future for our children, we need to recalibrate our priorities. At the speed the world is changing, the old playbooks for living and working will inevitably be supplanted - and we need to prepare our children to author the new ones. The same cognitive software running in the minds of the NASA engineers and Picasso runs in the minds of our young, but it needs to be cultivated. A balanced education nurtures skills and imagination. That kind of education will pay off decades after students throw their mortarboards in the air and step into a world that we, their parents, can barely foresee.

A balanced education will nurture
1. Creativity and good behaviour
2. Curiosity and success
3. Skills and imagination
4. Respect and behaviour

**48. Read the following passage and then answer the question:**

Creativity is a driver of youthful discovery and expression - but it becomes stifled in deference to proficiencies that are more easily measured and tested. This sidelining of creative learning may reflect larger societal trends. Teachers typically prefer the well-behaved student to the creative one, who is often perceived as rocking the boat. A recent poll found that most Americans want children to have respect for elders over independence, good manners over curiosity, and would prefer them to be well behaved rather than creative.

If we want a bright future for our children, we need to recalibrate our priorities. At the speed the world is changing, the old playbooks for living and working will inevitably be supplanted - and we need to prepare our children to author the new ones. The same cognitive software running in the minds of the NASA engineers and Picasso runs in the minds of our young, but it needs to be cultivated. A balanced education nurtures skills and imagination. That kind of education will pay off decades after students throw their mortarboards in the air and step into a world that we, their parents, can barely foresee.

‘Rocking the boat’ means the same as
1. drowning in the water
2. not driving well
3. following the rules
4. disturbing the system

**49. Read the following passage and then answer the question:**

Creativity is a driver of youthful discovery and expression - but it becomes stifled in deference to proficiencies that are more easily measured and tested. This sidelining of creative learning may reflect larger societal trends. Teachers typically prefer the well-behaved student to the creative one, who is often perceived as rocking the boat. A recent poll found that most Americans want children to have respect for elders over independence, good manners over curiosity, and would prefer them to be well behaved rather than creative.

If we want a bright future for our children, we need to recalibrate our priorities. At the speed the world is changing, the old playbooks for living and working will inevitably be supplanted - and we need to prepare our children to author the new ones. The same cognitive software running in the minds of the NASA engineers and Picasso runs in the minds of our young, but it needs to be cultivated. A balanced education nurtures skills and imagination. That kind of education will pay off decades after students throw their mortarboards in the air and step into a world that we, their parents, can barely foresee.

In the passage, the word ‘supplanted’ can be replaced by the word
1. revised
2. replaced
3. reviewed
4. remembered

**50. Read the following passage and then answer the question:**

Creativity is a driver of youthful discovery and expression - but it becomes stifled in deference to proficiencies that are more easily measured and tested. This sidelining of creative learning may reflect larger societal trends. Teachers typically prefer the well-behaved student to the creative one, who is often perceived as rocking the boat. A recent poll found that most Americans want children to have respect for elders over independence, good manners over curiosity, and would prefer them to be well behaved rather than creative.

If we want a bright future for our children, we need to recalibrate our priorities. At the speed the world is changing, the old playbooks for living and working will inevitably be supplanted - and we need to prepare our children to author the new ones. The same cognitive software running in the minds of the NASA engineers and Picasso runs in the minds of our young, but it needs to be cultivated. A balanced education nurtures skills and imagination. That kind of education will pay off decades after students throw their mortarboards in the air and step into a world that we, their parents, can barely foresee.

According to the passage, creativity inspires the youth to
1. express and discover
2. disobey and misbehave
3. rebel and quarrel
4. disturb and fight