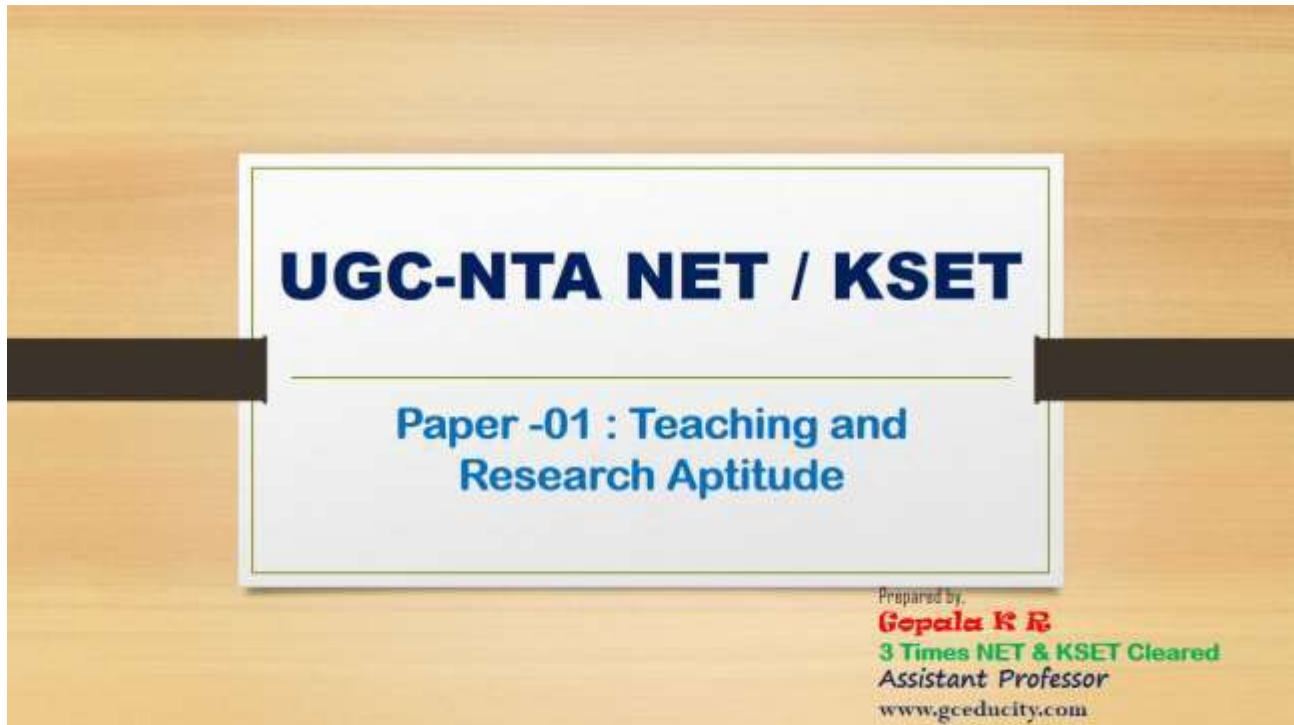


NTA-UGC JRF/NET/KSET

Paper 1: Teaching and Research Aptitude

By
Gopala K R
Assistant Professor
3 time NET & KSET Cleared

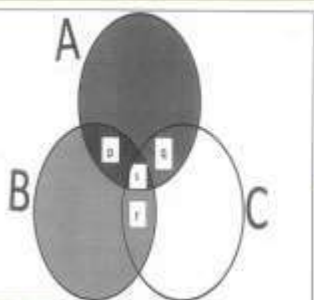


Unit VII – Data Interpretations

- Sources, acquisition and classification of Data.
- Quantitative and Qualitative Data.
- Graphical representation (Bar-chart, Histograms, Pie-chart, Table-chart and Line-chart) and mapping of Data.
- Data Interpretation.
- Data and Governance.

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Unit VII – Data Interpretations



A = 30, represents total number of students in class studying Physics.

B = ?, represents total number of students studying Chemistry.

C = 40, represents total number of students studying Mathematics.

12 Students are studying Physics and Chemistry but not Mathematics.

16 Students are studying Chemistry and Mathematics but not Physics.

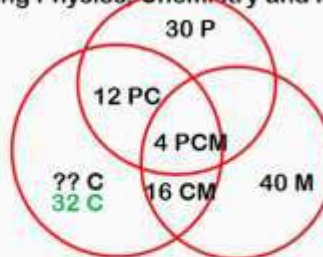
4 Students are studying Physics, Chemistry and Mathematics.

21. If no student is studying Chemistry alone, what is the total number of students studying Chemistry ?

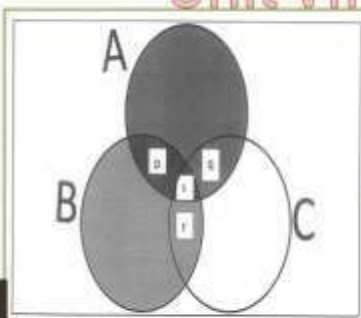
- A. 30
- B. 28
- C. 32
- D. 34

$$T C: 0C + 12PC + 4PCM + 16CM = 32C$$

Ans: C



Unit VII – Data Interpretations



A = 30, represents total number of students in class studying Physics.

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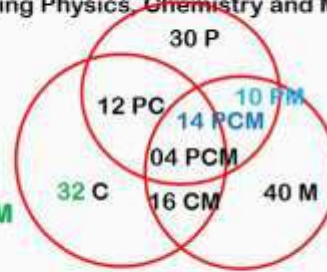
4 Students are studying Physics, Chemistry and Mathematics.

22. If students studying Physics and Mathematics, Physics, Chemistry and Mathematics are 14 in number, then what is the value of q ?

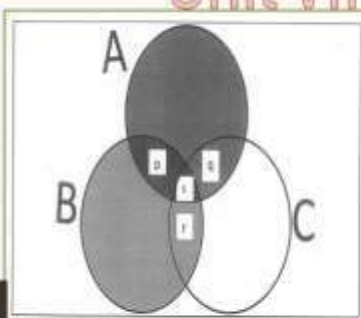
- A. 6
- B. 5
- C. 10
- D. 4

$$PM=14 \text{ PM \& PCM} - 04PCM = 10 \text{ PM}$$

Ans: C



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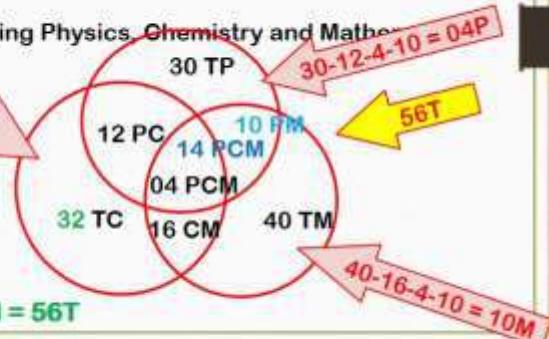
4 Students are studying Physics, Chemistry and Mathe

23. What is the total number of students in the class ?

- A. 52
- B. 60
- C. 56
- D. 63

Ans: C

$$T = 04P + 10M + 0C + 12PC + 10PM + 16CM + 04PCM = 56T$$



Unit VII – Data Interpretations

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 16 Students are studying Chemistry and Mathematics but not Physics.
 4 Students are studying Physics, Chemistry and Mathematics.

24. What is the percentage of students studying Physics ?

A. 53%
 B. 56%
 C. 60%
 D. 40%

$%P = P/T * 100 = 30/56 * 100 = 53\%$

Ans: A

Unit VII – Data Interpretations

A = 30, represents total number of students in class studying Physics.
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12 Students are studying Physics and Chemistry but not Mathematics.
 16 Students are studying Chemistry and Mathematics but not Physics.
 4 Students are studying Physics, Chemistry and Mathematics.

25. What is the ratio of number of students studying only Physics to the number of students studying only Mathematics ?

A. 0.3
 B. 0.4
 C. 0.5
 D. 0.6

Ratio P:M = 4:10 = 0.4

Ans: B

Unit VIII - Information and Communication Technology (ICT)

- ICT: General abbreviations and terminology.
- Basics of Internet, Intranet, E-mail, Audio and Video-conferencing.
- Digital initiatives in higher education.
- ICT and Governance.

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Information and Communication Technology (ICT)

1. ICT stands for

- A. Information common technology
- B. Information and communication technology
- C. Information and computer technology
- D. Inter connected Technology

Option : B

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Information and Communication Technology (ICT)

2. Computer can

- A. Process both quantitative and qualitative information.
- B. Store huge information
- C. Process information and fast accurately
- D. All the above.

Option : D

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Information and Communication Technology (ICT)

3. Satellite Communication works through

- A. Radar — Detection System that uses radio waves to decide distance range and angle of the object
- B. Transponder — Device that picks up & automatically respond to an incoming signal
- C. Receptor — Device that receives the signals
- D. Transmitter — Device which produces the radio waves

Option : B

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Information and Communication Technology (ICT)

4. A computer is that machine which works more like a human brain. This definition of computer is

- A. Correct
- B. Incorrect
- C. Partially correct
- D. None of the above

Option : A

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Information and Communication Technology (ICT)

5. Information and communication technology includes

- A. E-mail
- B. Internet
- C. Educational television
- D. All the above.

Option : D

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Unit IX - People, Development and Environment

- Development and environment: Millennium development and Sustainable development goals.
- Human and environment interaction: Anthropogenic activities and their impacts on environment.
- Environmental issues: Local, Regional and Global; Air pollution, Water pollution, Soil pollution, Noise pollution, Waste (solid, liquid, biomedical, hazardous, electronic), Climate change and its Socio-Economic and Political dimensions.
- Impacts of pollutants on human health.
- Natural and energy resources: Solar, Wind, Soil, Hydro, Geothermal, Biomass, Nuclear and Forests.
- Natural hazards and disasters: Mitigation strategies.
- Environmental Protection Act (1986), National Action Plan on Climate Change, International agreements/efforts -Montreal Protocol, Rio Summit, Convention on Biodiversity, Kyoto Protocol, Paris Agreement, International Solar Alliance.

People and Environment

1. It is believed that our globe is warming progressively. This global warming will eventually result in.

- A. Increase in availability of usable land.
- B. Uniformity of climate at equator and poles.
- C. Fall in the sea level
- D. Melting of polar ice

Option : D

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People and Environment

2. Sardar Sarover dam is located on the river

- A. Ganga
- B. Godavari
- C. Mahanadi
- D. Narmada

In Gujarath

Option : D

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People and Environment

3. ----- is sustainable use and protection of natural resources

- A. Pollution
- B. Preservation
- C. Conservation
- D. Exploitation

Option : C

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People and Environment

4. What is geo thermal energy

- A. Energy contained in the hot water deposits within the earth crust
- B. Energy stored in dams
- C. Energy derived from the coal
- D. Energy derived from steam

Option : A

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People and Environment

5. Light year is a unit of

- A. Intensity of the light
- B. Distance
- C. Time
- D. Planetary motion

Option : B

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Unit X - Higher Education System

- Institutions of higher learning and education in ancient India.
- Evolution of higher learning and research in Post Independence India.
- Oriental, Conventional and Non-conventional learning programmes in India.
- Professional, Technical and Skill Based education.
- Value education and environmental education.
- Policies, Governance, and Administration.

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Higher Education System

1. New education policy is based on

- A. Hortogue committe 1929
- B. Mudaliar education commission 1952-53
- C. Kothari commission 1964-66 NEC
- D. None of the Above

Option : C

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Higher Education System

2. Rashtriya Uchchatar Siksha Abhiyan has the following important components

- I. Up gradation of existing autonomous colleges into university
- II. Establishment of new model colleges
- III. Institutional restructuring and reforms
- IV. Infrastructure grants to colleges and universities
- V. Equity initiative

- A. I,II,III &IV B. II,III,IV&V
C. I,III,IV&V D. I,II,III,IV&V

Option : D

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Higher Education System

3. Which of the following bodies grants funds for higher education

- I. UGC
- II. State government
- III. Municipal Corporation
- IV. Central Government

- A. Only (I) B. III & IV
C. I,II &IV D. All of these

Option : C

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Higher Education System

4. If something new or original is noticed in the activities of a learner, which of the following terms describe him the best

- A. Intelligent
- B. Creative
- C. Motivated
- D. Critical

Option : B

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Higher Education System

5. As per AISHE Report 2017-18 in which category of courses females have larger share

- A. Science Courses
- B. Arts courses
- C. Commerce courses
- D. Engineering Courses

Option : B

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