

UGC NET PAPER-1

GENERAL APTITUDE

MOCK TEST PAPER-1

Time Allotted: 1 Hour and 15 Minutes

Maximum Marks: 100

Important Instructions:-

1. Each question carries 2 marks.
2. This paper consists of fifty (50) multiple-choice type of questions.
3. Each item has four alternative options marked (a), (b), (c) and (d). You have to select the correct option.
Example: where (c) is the correct option then you will select it like this (a) (b) (c) (d) .
4. Use of any calculator or log table etc., is prohibited.
5. There is no negative marking for incorrect answers.

Directions for questions (1 to 5): Based on the data in the table, answer the questions that follow.

The following table presents the percentage breakup of employees and the ratio of male to female employees working in five different organizations (A to E). There is a total number of 35,000 employees working in all five organizations.

Organization	Percentage (%) of employees	Ratio of female to male employees
A	21	11:9
B	28	3:7
C	15	2:3
D	12	1:3
E	24	3:2

- Q.1.** What is the average of female employees among all 5 organizations ?
a. 3030
b. 3300
c. 3035
d. 3535
- Q.2.** Find the difference between employees in organization C and employees in organization E.
a. 3250
b. 3150
c. 3350
d. 3100
- Q.3.** Find the average of numbers of employees in organization B and C day together.
a. 7255
b. 7525
c. 7552
d. 7500
- Q.4.** Find the difference of male employees and female employees in organization C.
a. 1100
b. 1050
c. 1500
d. 1005
- Q.5.** Which of the given organizations has the maximum number of female employees?
a. A
b. C
c. E
d. B

- Q.6.** Which of the statement is correct about Wood's Despatch
a. It came in year 1854 in the time period of Viceroy Lord Dalhousie
b. It is called Magna Carta of English education in India
c. It was the first policy to measure regarding primary education in India which focused on Teachers Training as well
d. It recommended education in English only
e. It focused on women's education as well
- Choose the correct code from the below:
a. 1, 2 and 5 only
b. 1, 2, 3 and 5
c. 3 and 4
d. 4 and 5

- Q.7.** In education in vedic period the person who has done his education up to 36 years was known as
a. Vasu
b. Rudra
c. Aditya
d. Brahma

- Q.8.** Match the list I and list II

Institution	Year
1. Varanasi Hindu philosophy college	A. 2010
2. Elphin Institute	B. 1855
3. Presidency College	C. 1823
4. Presidency University	D. 1791

Choose the correct code from the below:

- a. 1-A, 2-B, 3-C, 4-D
b. 1-B, 2-A, 3-C, 4-D
c. 1-D, 2-C, 3-B, 4-A
d. 1-A, 2-B, 3-D, 4-C
- Q.9.** Identify the statements which are correct about E Pathshala
a. It was launched in 2015 to promote self learning among the school and University students

- b. The theme of this initiative is learning on the go
- c. It was awarded as best mobile app award in 2019 given by Union Ministry for law and Justice
- d. It is a depository of NCERT books

Choose the correct code from the below:

- a. 2 and 3
- b. 1 and 3
- c. 2 and 4
- d. 1 and 4

Q.10. A Council was set up in 1905 by Swadeshi Nationalist leaders to promote Indian tradition and culture along with modern values and two development in own national language this Commission was named as

- a. National Council for education National Commission for education
- b. Indian Council of Education
- c. Swadeshi Council for education

Q.11. Consider the following statements

Statement 1- noise pollution affect the hearing power of human but do not affect the psychological level

Statement 2- hearing capacity of a human is not linear

Choose the correct option from the below

- a. All statements are correct
- b. Only statement one is correct
- c. Only statement 2 is correct
- d. Both statements are incorrect

Q.12. Identify the value from the following given questions which of them is most likely promoted with the effect of globalization

- a. Monocultural values
- b. Multicultural values
- c. Regional values
- d. Religious values

Q.13. Given below are two statement one is labeled as assertion and another is labeled as reason

Assertion- Interaction of human with environment lead to complicity and various problems in the environment

Reason- Many changes done on the earth by human is Irreversible and cause pollution

- a. Assertion and reason both are incorrect
- b. Assertion is correct but reason is incorrect
- c. Assertion and reason both are correct but reason is not a correct explanation of assertion
- d. Assertion and reason both are correct but reason is correct explanation of assertion

Q.14. Given below are two statement one is labeled as assertion and another is labeled as reason

Assertion(A): Production of electricity from renewable resources has no any inverse effect over environment

Reason(R): There is very least exploitation of carbon dioxide with use of renewable energy

- a. Assertion is incorrect and the reason is correct.
- b. assertion is correct but reason is incorrect
- c. Assertion and reason both are correct but reason is not a correct explanation of assertion
- d. Assertion and reason both are correct but reason is correct explanation of assertion

Q.15. With respect to pollution and waste the term trash includes

- 1. Animal waste
- 2. Industrial waste
- 3. Paper, cardboard and thermocol
- 4. Vegetable waste
- 5. Wood

Choose the correct code from the given options

- a. 1 and 4
- b. 5 and 3
- c. 3 and 5
- d. 2 and 5

Directions for questions (16 to 20): Read the passage carefully and answer the questions that follow:

The Corona Virus COVID-19 pandemic is the defining global health crisis of our time and the greater challenge we have faced since World War Two. Since its emergence in Asia late last year, the virus has spread to every continent except Antarctica. We have now reached the tragic milestone of one! million deaths, and the human family is suffering under an almost intolerable burden of loss. But the pandemic is much more than a health crisis, it's also an unprecedented socio economic crisis. Stressing every one of the countries it touches, it has the potential to create devastating social, economic and political effects that will leave deep and long standing scars. UNDP is the technical lead in the UN's socio-economic recovery alongside the health response led by WHO, and the Global Humanitarian Response Plan and working under the leadership of the UN Resident Coordinators. Every day, people are losing jobs and income, with no way of knowing when normality will return. Small island nations, heavily dependent on tourism, have empty hotels and deserted beaches, The International Labor Organization estimates that 400 million jobs would be lost. The World Bank) projects a US \$110 billion decline in remittance this year, which could mean 800 million people will not be able to meet their basic needs

Q.16. Which greater challenge have we faced after World War two?

- a. World War first
- b. Covid -19 pandemic
- c. Battle of Panipat
- d. Battle of Haldighati

Q.17. Who is the technical lead in the UN's socio-economic recovery?

- a. Global Humanities
- b. WHO
- c. UNDP
- d. The world Bank

- Q.18.** How millions of deaths have we now reached the tragic milestone of one.
- Four million
 - Five crore
 - Two billion
 - One million
- Q.19.** How would you like information about COVID-19 to be further integrated into the curriculum?
- Lectures
 - Seminars
 - Practical training for protective measurements
 - Others
- Q.20.** Which organ system does COVID-19 primarily attack?
- Respiratory
 - Gastrointestinal
 - Genitourinary
 - Not sure
- Q.21.** A teacher tells his students 'When you will not learn this, you will not be able to carry out your project'. What does this communication suggest?
- Continued Interest
 - Ambiguous Advice
 - Potential Threat
 - Negative Reinforcement
- Q.22.** Dynamics of good classroom communication do not involve:
- Indifference
 - Motivation
 - Being organized
 - Exclusivity
 - Participation
 - Gendered views
- Choose the correct code from the below:
- 1, 2, 3 and 4 only
 - 2, 3 and 5 only
 - 1, 4 and 6 only
 - 2, 3, 5 and 6 only
- Q.23.** Given below are two statements. One is labeled as Assertion A and the other is labeled as Reason R:
Assertion (A): Communication includes human behavior for exchange of information.
Reason (R): Communication involves the use of only two senses.
- Choose the correct option from the following:
- Both A and R are true, and R is the correct explanation of A
 - Both A and R are true, and R is not the correct explanation of A
 - A is true, but R is false
 - A is false, but R is true
- Q.24.** Mini-summaries at the end of each class are called,
- Verbal break-up
 - Clichéd conclusion
 - Verbal signposting
 - Staggered conclusion
- Q.25.** Pitch of the teacher's voice in the classroom is described as
- Linguistic
 - Paralinguistic
 - Non-linguistic
 - Macro-linguistic
- Q.26.** Which of the following sequences correctly reflects scientific investigation?
- Conceptualization, theorizing, deduced consequences, observation and testing
 - Testing, observation, conceptualizing, theorizing and deduced consequences
 - Theorizing, deducing consequences, testing, observing and conceptualizing
 - Observation, conceptualization, theorizing, deduced consequences and method to verify them
- Q.27.** Which of the following research is cyclic in nature and focused on immediate solutions for a problem.
- Applied research
 - Action research
 - Empirical research
 - Pure or basic research
- Q.28.** In a thesis 'Format and styles of referencing' have been inappropriately followed, this is an example of:
- Technical lapse on the part of researcher
 - Unethical practice of the researcher
 - Inability of the researcher to write a thesis
 - Lack of commitment on the part of researcher to write a thesis
- Q.29.** The issue of research ethics does not become relevant in which of the following stages of research?
- Problem selection
 - Hypothesis formulation
 - Hypothesis testing
 - Data analysis and interpretation
 - Defining of research population
- Choose the correct code from the below:
- (i), (ii) and (v)
 - (iii) and (iv)
 - (ii) and (v)
 - (iii) and (v)
- Q.30.** In which of the sampling methods, referring plays an important role?
- Snowball sampling
 - Stratified sampling
 - Cluster sampling
 - Quota sampling

- Q.31.** Which of the following pramanas are considered valid as per Nyaya school
1. Perception (pratyaksha)
 2. Inference (Anumana)
 3. Comparison (upmana)
 4. Verbal Taxonomy (Shabda)
 5. Assumption (arthapatti)
 6. Non-Apprehension (Anupalabdhi)
- Choose the correct code:
- a. 1, 2, 3 and 4 only
 - b. 1, 3, 5, and 6
 - c. 5 and 6 only
 - d. 1, 3, 5 and 4
- Q.32.** Consider the statements given below:
1. Bloom's taxonomy is related to educational objectives.
 2. This taxonomy was given by Benjamin Bloom in his book "Taxonomy of Educational Objectives" in 1956.
 3. Three domains of teaching by his taxonomy are cognitive, psychomotor and affective.
 4. All three aspects have 6 objectives each.
 5. It was revised in 2001.
- Choose the correct code from the below:
- a. All are correct
 - b. Only A and C are correct
 - c. Only A, B and D are correct
 - d. All are incorrect
- Q.33.** CCE approach of evaluation of CBSE is aimed at:
- a. Diagnostic evaluation
 - b. Comprehensive evaluation
 - c. Standard based evaluation
 - d. Norm based evaluation
- Q.34.** Individualized approaches of teaching are:
- a. Modular approach
 - b. Programmed learning
 - c. Personalized learning
 - d. Diagnostic learning
 - e. Micro learning
- Choose the correct code from the below:
- a. A, B and C only
 - b. A and C only
 - c. A and D only
 - d. C and E only
- Q.35.** Identify the correct process of micro teaching:
- a. Plan – Teaching – Feedback – Re-plan – Re-teach – Re-feedback.
 - b. Plan – Teaching – Re-plan – Re-teach – Re-feedback- Feedback
 - c. Plan – Teaching – Re-plan – Re-teach – Re-feedback.
 - d. Plan – Teaching – Feedback – Re-plan – Re-feedback.
- Q.36.** Following are the two statements: Observe the statements and answer the following question.
- Statement 1- Idealism which was given by plato and supported by sukrat, believes that all moral values and spiritual beliefs are the reality.
- Statement 2 - Realism given by Pearson and John Duvie says that knowledge should be acquired by experiences.
- In light to above sentences select the correct option from the below
- a. Statement one is correct but statement two is incorrect
 - b. Statement one is incorrect but statement two is correct
 - c. Statement one and two both are correct
 - d. Statement one and two both are incorrect
- Q.37.** If in a certain code language, GARDEN is written as HZSCFM, then how will PARTICULAR be written?
- a. QBSUJBVKBQ
 - b. QZSUJDVMBS
 - c. QZSSJBVKBQ
 - d. ZQSSBJLOPA
- Q.38.** If in a certain code language, PRAY is written as 14-16-25-23, then how will SINK be written?
- a. 19-09-14-11
 - b. 17-07-12-09
 - c. 21-11-16-13
 - d. 08-18-13-16
- Q.39.** If 'cycling makes healthy' is written as 'nat simo yel', 'habit of cycling' is written as gell mo yel', 'have good habit' is written as 'nit gell pa' and 'healthy is wealthy' is written as 'simo dan at'. What is the code for 'good'?
- a. gell
 - b. nit
 - c. pa
 - d. either 'nit' or 'pa'
- Q.40.** 15, 23, 35, 51
- a. 61
 - b. 71
 - c. 265
 - d. 75
- Q.41.** Balwinder's house is in north of his office. Parminder's house is in south of the park. Park is in east of Balwinder's office. Bank is in west of Balwinder's house, in line with his office, and Parminder's house. In which direction is the bank with respect to the position of the park?
- a. South-east
 - b. North-west
 - c. South-west
 - d. North-east
- Q.42.** Identify the contradictory statements from the following
1. All men are mortal
 2. No men a mortal
 3. Some men are Mortal
 4. Some men are not mortal

- Choose the correct code from the below:
- 1 and 2
 - 2 and 4
 - 1 and 3
 - 2 and 3
- Q.43.** If the statement "All houses are flat" is true then which of the following statements can be considered false.
- No house is flat
 - some houses are flat
 - some houses are not flat
 - all houses are flat
- Choose the correct code from the below:
- 1 and 3
 - 2 and 4
 - 3 and 4
 - 2 and 3
- Q.44.** When no clear information is available and observer makes a educated guess on the basis of observation and incomplete information it is called
- Inductive reasoning
 - Seductive reasoning
 - Conductor argument
 - Abductive reasoning
- Q.45.** A detective argument is considered valid if
- Premises are true and conclusion is also true
 - Premises must be true conclusion can be false
 - Conclusion must be true premises can be false
 - Conclusion and premises both can be false
- Q.46.** Which of the following types of ROM is not correct
- EP ROM
 - P ROM
 - EEP ROM
 - Mask ROM
- Q.47.** International Computer Security Day is observed on:
- 18th July
 - 30th November
 - 2nd December
 - 23rd December
- Q.48.** Which networking will be helpful for getting information and data from wider area among the following
- Skype
 - WAN
 - LAN
 - MAN
- Q.49.** Given below are two statements –one is labeled as Assertion A and the other is labeled as Reason R.
- Assertion A: Sniffing May be used to analyze data or information over the network.
 - Reasons R: Sniffing Is a process Of monitoring and capturing all data packets passing through given network
- In light to the above stated Two statements,choose the correct option from choice given below:
- Both A and R are true, and R is the correct explanation of A
 - Both A and R are true, and R is not the correct explanation of A
 - A is true, but R is false
 - A is false, but R is true
- Q.50.** Which of the following is a language translator:
- Compiler
 - Interpreter
 - Assembler
 - Codec

Answer Key

Ques.	Ans.	Topic's Name	Chapter's Name
1	c	DATA INTERPRETATION	DATA INTERPRETATION
2	b	DATA INTERPRETATION	DATA INTERPRETATION
3	b	DATA INTERPRETATION	DATA INTERPRETATION
4	b	DATA INTERPRETATION	DATA INTERPRETATION
5	c	DATA INTERPRETATION	DATA INTERPRETATION
6	a	COMMISIONS AND REPORTS	HIGHER EDUCATION
7	b	ANCIENT EDUCATION	HIGHER EDUCATION
8	c	UNIVERSITIES	HIGHER EDUCATION
9	a	GOVERNMENT INITIATIVE	HIGHER EDUCATION
10	a	EDUCATIONAL COUNCIL	HIGHER EDUCATION
11	d	POLLUTION	PEOPLE AND ENVIRONMENT
12	b	GLOBALIZATION	PEOPLE AND ENVIRONMENT

13	d	POLLUTION	PEOPLE AND ENVIRONMENT
14	a	ENERGY RESOURCES	PEOPLE AND ENVIRONMENT
15	c	POLLUTION	PEOPLE AND ENVIRONMENT
16	b	READING COMPREHENTION	READING COMPREHENTION
17	c	READING COMPREHENTION	READING COMPREHENTION
18	d	READING COMPREHENTION	READING COMPREHENTION
19	c	READING COMPREHENTION	READING COMPREHENTION
20	a	READING COMPREHENTION	READING COMPREHENTION
21	d	CLASSROOM COMMUNICATION	COMMUNICATION
22	c	CLASSROOM COMMUNICATION	COMMUNICATION
23	c	EFFECTIVE COMMUNICATION	COMMUNICATION
24	c	TERMINOLOGY	COMMUNICATION
25	b	TERMINOLOGY	COMMUNICATION
26	d	PROCESS OF RESEARCH	RESEARCH APTITUDE
27	b	TYPES OF RESEARCH	RESEARCH APTITUDE
28	a	RESEARCH REPORT	RESEARCH APTITUDE
29	b	RESEARCH ETHICS	RESEARCH APTITUDE
30	a	SAMPLING	RESEARCH APTITUDE
31	a	INDIAN LOGIC	LOGICAL REASONING
32	a	THEORY OF TEACHING	TEACHING APTITUDE
33	a	EVALUATION	TEACHING APTITUDE
34	a	TEACHING APPROACHES	TEACHING APTITUDE
35	a	MICRO TEACHING	TEACHING APTITUDE
36	c	THEORIES OF TEACHING	TEACHING APTITUDE
37	c	ALPHABET SERIES	MATHEMATICAL REASONING
38	b	CODING	MATHEMATICAL REASONING
39	d	CODING	MATHEMATICAL REASONING
40	b	NUMBER SERIES	MATHEMATICAL REASONING
41	b	DIRECTION	MATHEMATICAL REASONING
42	d	ARGUMENT	LOGICAL REASONING
43	a	PREMISES AND CONCLUSION	LOGICAL REASONING
44	d	TYPES OF ARGUMENT	LOGICAL REASONING
45	a	TYPES OF ARGUMENT	LOGICAL REASONING
46	c	HARDWARE	ICT
47	b	GENERAL AWARENESS	ICT
48	b	NETWORKING	ICT
49	d	TERMINOLOGY	ICT
50	d	HARDWARE	ICT

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Answers with Explanations

1. **Option (c) is correct.**
Total Number of employees in organization
 $A = 35000 \times 21\% = 7350$
Female employees $7350 \times 11/20 = 4043$ (approx.)
Total Number of employees in organization
 $B = 35000 \times 28\% = 9800$
Female employees $9800 \times 3/10 = 2940$
Total Number of employees in organization
 $C = 35000 \times 15\% = 5250$
Female employees $5250 \times 2/5 = 2100$
Total Number of employees in organization
 $D = 35000 \times 12\% = 4200$
Female employees $4200 \times 1/4 = 1050$
Total Number of employees in organization
 $E = 35000 \times 24\% = 8400$
Female employees $8400 \times 3/5 = 5040$
Total female employees in all the organization =
 $4043 + 2940 + 2100 + 1050 + 5040 = 15,173$
Average of female employees = $15,173/5 = 3035$
(approx.)
2. **Option (b) is correct.**
Employees in
Organization C = 5,250
Organization E = 8,400
Difference = $8400 - 5250 = 3,150$
3. **Option (b) is correct.**
Employees in
Organization C = 5,250
Organization B = 9,800
Average of employees i.e., both organizations
 $= (5250 + 9800)/2$
 $= 15,050/2 = 7,525$
4. **Option (b) is correct.**
Total employees in organization C = 5,250
Male employees = $5250 \times 3/5 = 3150$
Female employees = $5250 \times 2/5 = 2100$
Difference = $3150 - 2100 = 1050$
5. **Option (c) is correct.**
Female employees in organization =
 $A = 4043$ ($7350 \times 11/20 = 4043$ (approx.))
 $B = 2940$ ($9800 \times 3/10 = 2940$)
 $C = 2100$ ($5250 \times 2/5 = 2100$)
- $D = 1050$ ($4200 \times 1/4 = 1050$)
 $E = (8400 \times 3)/5 = 5040$
Hence, Maximum number of female employees is
in organization E
6. **Option (a) is correct.**
Following facts are about Wood's Despatch
a. Wood dispatch was given by Sir Charles wood
in 1854 he was the president of The Board of
Control of the British East India company at
that time.
b. It was given to the Governor of that time, Lord
Dalhousie.
c. Woods dispatch is also called the Magna Carta
of English education in India.
d. This was the first policy to measure regarding
higher education, teacher's training and
women's education.
e. It suggests that the education should be given
in English and other native languages or
mother language as well.
f. It suggest the establishment of 3 universities in
Calcutta, Madras and Bombay which was set
up in 1857
7. **Option (b) is correct.**
In vedic period the education levels were given
various names
a. The person who has completed his education
up to 24 years was called Vasu.
b. The person who completed the education up
to 36 years of age was called Rudra.
c. The student who had completed the education up
to 48 years of age was called Aditya.
d. 5 years of age was the starting of education and
was called Vidhyarambh which consist of Vidya
and Aarambh words which ultimately means
starting of education.
e. The age of 8 to 12 years was the period of
brahmacharya.
f. Utsarjan or samavartan Sanskar was the name
of the farewell ceremony.

8. **Option (c) is correct.**

Institution	Year
1. Varanasi Hindu philosophy college	D. 1791
2. Elphine Institute	C. 1834
3. Presidency College	B. 1855
4. Presidency University	A.2010

- a. Varanasi Hindu Philosophy College was established in 1791.
- b. Elphine Institute was established in 1834 with the recommendation of the Elphin stone report, 1823. Elphin college which is one of the oldest colleges of Bombay University was also established with the Recommendation of this report.
- c. Hindu University in Calcutta was established by R.R.M. Roy in 1817 which became Presidency College in 1855 and Presidency University in 2010.
9. **Option (a) is correct.**
Facts about E-Pathshala are:
- a. Was launched in 2015.
- b. The motive was to promote self learning among the school students with the help of NCERT and SCERT books and more.
- c. Launched Under NMEICT or National mission for education through ICT.
- d. E-pathshala mobile application was developed by NCERT and CIET.
- e. This mobile app was awarded best mobile app in 2019 by Union Minister of law and Justice Dr Ravi Shankar Prasad at New Delhi.
10. **Option (a) is correct.**
National Council For Education: This Council was set up by some Swadeshi Nationalist leaders in 1905. The main motive of this Council was to promote Indian tradition and culture among the Indians with modern values and to promote feelings of nationalism among the people of the country. They thought of development in the national language with modern values. Various educational institutions were opened in this step like:
- a. Jadavpur University in Calcutta.
- b. Shantiniketan was established by Rabindranath Tagore.
- c. Dawn society was set up by Satish Mukherjee.
11. **Option (d) is correct.**
Given both statements are incorrect because noise pollution affects the hearing power of the human as well as the psychological aspect of the human. The hearing power of humans is highly non-linear. Hence both statements are incorrect.
12. **Option (b) is correct.**
Globalization refers to opening the door of

the country for import and export of goods, services, technology, values, methods, culture etc. Globalization ultimately results in the development of a multi-cultural environment in the country. People of different countries adopt the values and characteristics of different cultures which refer to multiculturalism or multicultural values.

13. **Option (d) is correct.**

Interaction of human beings with the environment results in various complications and problems some are- pollution, degradation of natural resources, decrease in non renewable energy resources like Petroleum. These changes and activities cause various problems for the environment and human beings as well. Activities done by humans in interacting with the environment cause various changes which are Irreversible like degradation or use of non-renewable resources are Irreversible changes.

Hence, assertion and reason both are correct and reason is a correct explanation of assertion.

14. **Option (a) is correct.**

Assertion is incorrect because renewable energy resources are eco friendly but it cannot be said that they do not have inverse impact on environment there are various example which prove that renewable energy also have some inverse or negative impact on the environment all the they are lesser than fossil fuel and non-renewable energy resources example use of solar energy can disturb the habitat. Reason statement is correct as renewable energy resources produce very neglectable carbon dioxide as compared to non-renewable resources like Coal and Petroleum etc.

Hence, the assertion is correct but the reason is correct.

15. **Option (c) is correct.**

Trash refers to the solid and dry waste from the given options paper, cardboard and wood can be categorized in the term of trash.

Other options are wet waste which can be categorized as garbage which is related to organic or Kitchen waste.

16. **Option (b) is correct.**

According to the given passage the first paragraph suggests the answer which says the COVID-19 pandemic is the greatest challenge we had to face after World War II.

17. **Option (c) is correct.**

According to the given passage UNDP is the technical lead in the UN's socio-economic recovery alongside the health response led by WHO.

18. **Option (d) is correct.**

According to the given passage, every school and hospital have been made with benches and one million deaths have been faced.

19. **Option (c) is correct.**
As per the given options the most appropriate way to include the curriculum about COVID-19 will be practicing and training about the protective measures.
20. **Option (a) is correct.**
The COVID-19 attacks the respiratory system which ultimately decreases the oxygen level in the body which causes death in absence of proper measures.
21. **Option (d) is correct.**
The given example is an example of negative reinforcement. Negative reinforcement refers to creating free or negative reinforcement in the student to motivate them for working or learning.
22. **Option (c) is correct.**
Dynamic classroom refers to the classroom which is completely interactive teacher and student both are active.
Motivation, organised aspects and participation are the dimensions of dynamic class room where as aspects or factors like gender discrimination and in difference are not a part of dynamic classroom. Exclusivity means the practice of excluding or not admitting other things.
23. **Option (c) is correct.**
Communication refers to the exchange of Ideas, facts , opinion and information between two or more people. Communication word is taken from the word *communicare* and *Communis* which means to make it common.
Communication uses all the senses.
Hence, assertion is correct as it says that communication is the human behavior of exchanging ideas but reason is incorrect because communication is not about using only two senses.
Features of communication are:-
a. It is a social interaction
b. Communication is two way process
c. It is goal oriented
d. Continuous process
e. Can be verbal as well as non verbal
f. It creates common pool of ideas
g. It helps to build relationships and resolve misunderstandings
h. It helps to be updated
24. **Option (c) is correct.**
Before ending the class or speech or lecture the Mini summary is very common to speak out or it is a very common way to end the class to summarize that. This is called verbal signposting. This is a short or small version of the whole class or communicated messages.
Verbal breakup refers to dividing the whole communicated message or message to be communicated into small pieces for better understanding.
- A cliched message is a word, sign or statement that shows the lack of experience in communication.
Staggered conclusion is the conclusion of all the methods taught in the class at the end of the class.
Verbal signposting and staggered conclusion has a very minor difference that can be confusing but they are different. Verbal signposting is the summary of the whole class or a small and short version of a conveyed message whereas staggered conclusion is the conclusion of the class.
25. **Option (b) is correct.**
Linguistics is the study of language. Journalism is called the study of human language. It includes analyzing the human language in a comprehensive and objective way.
Paralinguistic communication refers to the way of conveying a message. The pitch of teacher will be included in paralinguistic communication or paralinguistic communication.
Macro linguistics is the study of phenomena of any language with respect to Nation.
Non linguistic communication is the communication with no words, in other words when the communication is done with sign language it will be categorized as non linguistic communication.
26. **Option (d) is correct.**
Correct sequence of scientific research starts from observation and ends at verification of concluded theory.
27. **Option (b) is correct.**
Action research was introduced by German-American Professor Kurt Lewin. This research aims at the immediate solution of a problem. Steps of action research can be remembered by PAOR (Plan, Act , Observe, Reflect).
Fundamental research is also called pure or basic research which is done originally with new facts to gain new knowledge or to develop new theories.
Action research:-
a. Also called cycle of action or cycle of enquiry
b. This research is done to diagnose the problem and develop a solution to the problem.
c. It cannot be journalised because it is related to the specific problem of a specific organization.
28. **Option (a) is correct.**
Technical appropriation refers to following all the format and styles in this writing when styles and format is not used properly or inappropriately used is an error by the researcher and this type of error is considered as technical lapse or technical error.
The error or mistake is called unethical practice or ethical error where research ethics are not followed. Ethics refer to the moral values that should be followed in the complete tenure or process of research.
Making errors cannot define the inability of researcher.

Thus, inappropriate use of Style at a forbetic cathode is defined as irritability of researchers in thesis wr iting.

29. **Option (b) is correct.**

Research ethics refers to the moral values which should be followed in the research process. Research ethics involve applying fundamental ethical principles to the research process.

The main steps in which research ethics play a very important role are hypothesis testing, data analyzing and interpretation of the conclusion.

Some research ethics are:-

- a. The data which have to be protected should be protected.
- b. The rights and dignity of individuals and groups should be respected.
- c. Rights and rules about intellectual properties like copyright and Trademark should be kept in the mind.
- d. Confidentiality about the people from which data have been collected should be kept in mind.
- e. Voluntary participation should be motivated.
- f. Results should be communicated properly without any manipulation.

30. **Option (a) is correct.**

Snowball sampling is a non random sampling in which, the researcher selects some people and asks them to refer and collect the data from the reference. This type of Sampling is used where the population is not comfortable to share the data or the data is little confidential or when it is rare to find the sample.

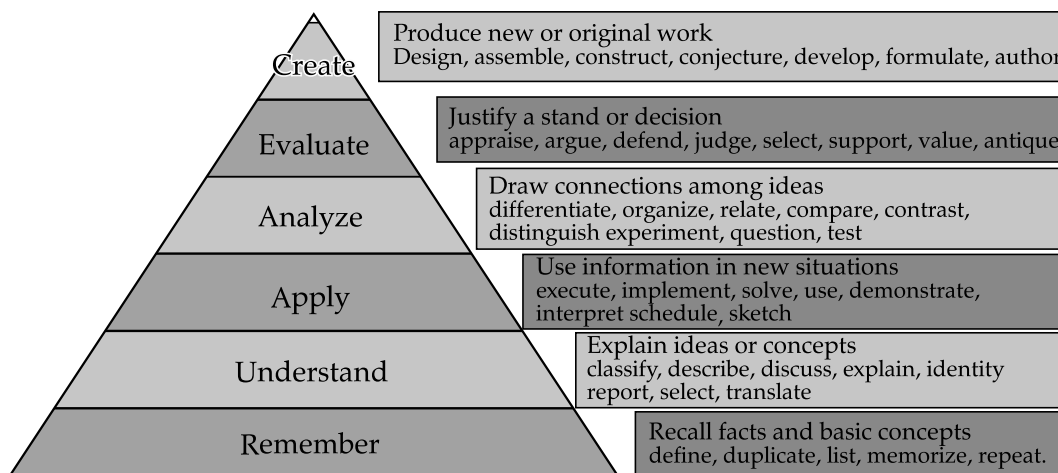
Snowball sampling is also called chain referral sampling.

For example: Radhika wants to study about the people suffering from depression. Here, it is not possible to find the depressed people properly but once she finds one man who was taking treatment for depression in a hospital. She asked him to be

32. **Option (a) are correct.**

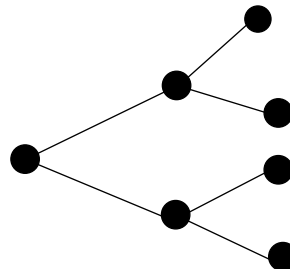
Bloom's taxonomy:-

Bloom's Taxonomy



a part of a research by giving his data and also asked him to refer to the person or to tell about the people who were also taking treatment at the same Hospital with him.

She would be getting her sample population for her research. This type of selection of data is called snowball sampling.



SNOWBALL SAMPLING

31. **Option (a) is correct.**

Nyaya School of logic has not accepted the arthapatti and anupalabdhi as a valid means of knowledge.

Perception or pratyaksha, inference or anumana, comparison aur upmana and verbal taxonomy aur shabd has been considered a valid means of knowledge by the nyaya school.

Mimansa and Advaita Vedanta School of Hinduism has accepted all 6 pramana as valid means of knowledge.

Charvak School of Hinduism accepted only pratyaksh Praman as valid means of knowledge.

Buddhism is like Vaishya Shikha School who has accepted only two Ramana as valid means of knowledge which are pratyaksh and anumana.

Jainism and sankhiya school has accepted 3 from Anas as valid means which are pratyaksha, anumana and Shabad

- a. Bloom taxonomy was given in 1956 in the book Taxonomy of Educational Objectives. This taxonomy is a set of 3 hierarchical models which is used to classify educational and learning objectives into levels of simplicity, complexity and specification.
- b. It was revised in 2001.
- c. Bloom has described three domains of learning those are cognitive, psychomotor and affective domains.
- d. He said that these domains help to develop 3Hs which are head, hand, and heart. Head is related to the cognitive domain, the hand is related to the psychomotor domain and the heart is related to the affective domain.
- e. All three domains have six objects in them.
- f. Bloom has given 6 levels of learning which are remembering, understanding, applying, analyzing, evaluating and creating. Remembering is the lowest level and creating is the highest level.
- g. Remembering is thoughtless learning.
- h. Understanding is thoughtful learning.
- i. Reflection which includes applying, creating, evaluating and analyzing is highly thoughtful learning or process.
33. **Option (a) is correct.**
Continuous and comprehensive evaluation of CBSE is based on or aimed at Diagnostic evaluation. Diagnostic evaluation is a type of evaluation which is done for identifying the barriers and problems in learning. This evaluation is done through question and answer sessions in daily class and various other methods as teacher things suitable. The main aim of this evaluation is to identify the problems or the learning outcomes during the session or class. Standard based evaluation is a type of evaluation in which pre decided standards exist and the evaluation is based on those standards. In norm based evaluation norm refers to the group where evaluation is basically comparative and the comparison is done within the norm or group it is called norm based evaluation.
34. **Option (a) is correct.**
Individualized approaches of teaching refers to the approaches which are especially designed for a individual or a group modular approach, **programmed approach** of learning and teaching and personalized learning are the type of individualized approaches where as **Diagnostic learning** refers to the teaching for solution of learning barriers where is **Micro learning** refers to the learning of small aspect when a topic is divided into small Parts for better learning. Diagnostic learning and micro learning are not individualized approaches as they can be common for the whole class.
35. **Option (a) is correct.**
Micro teaching is a part of teachers training courses. The correct process of micro-teaching is pre planning, teaching, taking feedback, replanning on the basis of feedback, Re-teaching and Re-feedback.
36. **Option (c) is correct.**
Idolism, Realism Pragmatism and existentialism are the major philosophies of teaching. **Idealism** believes on reality this philosophy was supported by plateau and suktrat this philosophy

believes that the values are absolute and eternal. The role of teacher in this philosophy is as moral and spiritual leader.

Realism believe the reality is matter and believes on natural laws. This philosophy was supported by Aristotle. The means of acquiring knowledge in realism are senses. The role of teacher is a source of authority the learning is logical and abstract as well.

Pragmatism believes to learn by doing and the environment is changeable. The knowledge is acquired through experience. The role of teacher is for thinking and scientific process. The learning is based on scientific explanation. This philosophy was supported by Pearson and John duvey.

37. **Option (c) is correct.**

Code has been given as follows:-

$$\begin{array}{cccccc} G & A & R & D & E & N \\ +1 \downarrow & -1 \downarrow & +1 \downarrow & -1 \downarrow & +1 \downarrow & -1 \downarrow \\ H & Z & S & C & F & M \end{array}$$

$$\begin{array}{cccccccccc} P & A & R & T & I & C & U & L & A & R \\ +1 \downarrow & -1 \downarrow & +1 \downarrow & -1 \downarrow & +1 \downarrow & -1 \downarrow & +1 \downarrow & -1 \downarrow & +1 \downarrow & -1 \downarrow \\ Q & Z & S & S & J & B & V & K & B & Q \end{array}$$

38. **Option (b) is correct.**

If $A = 1, B = 2,$

Code is given as below:

Like that ,

$$P = 16, 16 - 2 = 14$$

$$R = 18, 18 - 2 = 16$$

$$A = 1, 1 - 2 = -1 \text{ (25, as 26 alphabet are there)}$$

$$Y = 25, 25 - 2 = 23$$

As above logic,

$$S = 19, 19 - 2 = 17$$

$$I = 9, 9 - 2 = 07$$

$$N = 14, 14 - 2 = 12$$

$$K = 11, 11 - 2 = 9$$

Code will be = 17-07-12-09

39. **Option (d) is correct.**

a. If 'cycling makes healthy' is written as 'nat simo yel' and 'habit of cycling' is written as 'gell mo yel', from these, common word is cycling and common code is yel, hence, code for cycling will be yel.

b. 'have good habits' is written as 'nit gell pa' common word habit is coded as gell. Code for habit = gell.

c. and 'healthy is wealthy' is written as 'simo dan at'. By comparing codes, the common word is healthy and the common code is simo. Code for the word healthy is simo.

d. Cycling = yel

f. Healthy = simo.

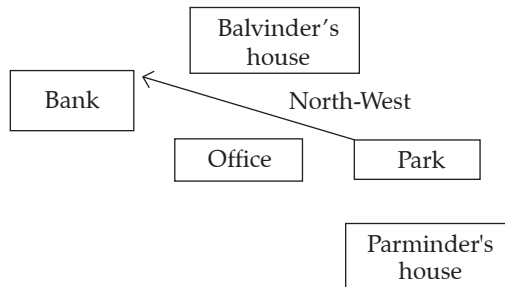
g. Code for good will be either nit or pa

40. **Option (b) is correct.**

$$\begin{array}{cccccc} 15 & & 23 & & 35 & & 51 & & 71 \\ \downarrow & & \downarrow & & \downarrow & & \downarrow & & \downarrow \\ & & +8 & & +12 & & +16 & & +20 \end{array}$$

Difference between the numbers follow the pattern of multiples of 4.

41. **Option (b) is correct.**



42. **Option (d) is correct.**

In the classical square of opposition contradictory statements are A and O or E and I.

Type A statements are universally positive. For example, all houses are flat, all men are models or all officers are honest.

E type statements are universal negative statements for example or houses are not flat all, man are not mortal or all officers are not honest

I type statements are particular positive statements for example some houses are flat, some men are motel or some officers are honest

O type statements are particular negative statements for example some men are not mortal, some officers are not honest or some houses are not flat.

In the given question statement 1 and 4 are contradictory and statements two and three are contradictory with each other.

One and four is not given as an option hence, the answer will be D statement two and three.

43. **Option (a) is correct.**

The statement "all houses are flat" is a type of statement which is a universal positive statement as per the classical square of opposition. If a type statement is considered true then the statements of E-type and O type will be considered as false.

E type statements which are universally negative is "no house is flat."

O type statements which are particularly negative is "some houses are not flat."

44. **Option (d) is correct.**

Abductive reasoning is when no clear information is available to the observer and he makes an inference on the basis of his observation and incomplete information.

Inductive argument is the argument which goes from particular to general or from example to theory.

Seductive argument is an argument which aims at attracting or making the things done.

45. **Option (a) is correct.**

Deductive argument goes from general to particular or theory to example. Directive argument AIIMS at proving and already given theory by various examples. This argument is

considered true when all the premises are true and the conclusion is also true.

46. **Option (c) is correct.**

EP ROM, PROM, EEPROM and mask ROM are types of ROM but EROM is not.

P ROM or Programmable read only memory is a blank chip which can be programmed only once using a programmer after getting programmed it cannot be modified, changed or erased.

EP ROM or erasable Programmable read only memory is a type of Rome that can be programmed more than one time, it can be erased by using UV light and can be programmed again.

EEPROM or erasable programmable read only memory is similar to EPROM but its content can be electrically erased and can be rewritten without removing it from the computer.

A modern type of EEPROM is flash memory can also be erased and retain electronic Kaling. It is much faster than the previous version and it is used in electronic devices like mobile phones and digital cameras.

Mask ROM or Masked read only memory is a memory chip which is manufactured with its content.

47. **Option (b) is correct.**

Computer security day is observed on 30th November.

Association of computer machinery(ACM), has declared this day to aware te people regarding cyber attacks and network safety.

48. **Option (b) is correct.**

WAN aur wide area network is the most helpful networking for getting information and data from wider area and to cover the wider area under the networking as well.

49. **Option (d) is correct.**

Sniffing attack in context of network security, corresponds to theft or interception of data by capturing the network traffic using a packet sniffer. when data is transmitted across networks, if the data packets are not encrypted, the data within the network packet can be read using a sniffer.

50. **Option (d) is correct.**

Codec is a language translator.

Compiler is a computer program that translates the high level machine language to a low level machine language.

Interpreter is a computer program that directly executes the instruction in the programming language. It is different from a compiler that has to compile the machine language in low level language. Assembler is a computer program that takes instruction and convert them in binary language for computer to perform the task easily.