



UGC - NET

NTA

PAPER - 1

CHAPTERWISE

Previous

12 Years

(2012 - 2023)

Questions with Video Solutions



UGC NET PAPER – 1

PREVIOUS YEAR QUESTIONS

S.N.	Content	P.N.
1.	2023 - 1 st Shift Paper	1
	2023 - 2 nd Shift Paper	7
2.	2022 - 1 st Shift Paper	12
	2022 - 2 nd Shift Paper	18
UNIT – I TEACHING APTITUDE		
3.	1. Teaching	23
	2. Learner's Characteristics	28
	3. Factors Affecting Teaching	31
	4. Methods of Teaching in institutions of Higher Learning	36
	5. Teaching Support System	42
	6. Evaluation Systems	44
UNIT – II RESEARCH APTITUDE		
4.	1. Research	48
	2. Method of Research	52
	3. Steps of Research	57
	4. Thesis and Article Writing	64
	5. Application of ICT in Research	68
	6. Research Ethics	69
UNIT – III COMPREHENSION		
5.	1. Comprehension	71
UNIT – IV COMMUNICATION		
6.	1. Communication	100
	2. Effective Communication	104
	3. Barriers to Effective Communication	113
	4. Mass – Media and Society	114
UNIT – V MATHEMATICAL REASONING AND APTITUDE		
7.	1. Types of Reasoning	117
	2. Numerical Series Letter Series, Codes and Relationship	119
	3. Mathematical Aptitude	125
UNIT – VI LOGICAL REASONING		
8.	1. Understanding the Structure of Arguments	132
	2. Analogies	145
	3. Evaluating and Distinguishing Deductive and Inductive Reasoning	146
	4. Venn Diagram	150
	5. Indian Logic: Means of Knowledge	152
	6. Pramanas	154
	7. The Structure of Inference (Anumana)	156

UNIT – VII DATA INTERPRETATION

9.	1. Sources, Acquisition and Classification of Data	158
	2. Quantitative and Qualitative Data	159
	3. Graphical Representation	160
	4. Data Interpretation	161
	5. Data and Governance	163

UNIT – VIII**INFORMATION AND COMMUNICATION TECHNOLOGY (ICT)**

10.	1. Information and Communication Technology (ICT)	164
	2. Basic of Internet	169
	3. Digital Initiatives in Higher Education	179
	4. ICT and Governance	180

UNIT – IX PEOPLE, DEVELOPMENT & ENVIRONMENT

11.	1. Development & Environment	182
	2. Human and Environment Interaction	185
	3. Environmental Issues	188
	4. Impacts of Pollutants on Human Health	193
	5. Natural and Energy Resources	195
	6. Natural Hazard and Disasters	199
	7. Environmental Protections Laws of India	202

UNIT – X HIGHER EDUCATION SYSTEM

12.	1. Institutions of Higher Learning and Education in Ancient India	205
	2. Evolution of Higher Learning and Research in Post-Independence India	208
	3. Oriental, Conventional and non – Conventional Learning Programmes in India	210
	4. Professional, Technical and Skills – Based Education	213
	5. Value Education and Environmental Education	216
	6. Policies, Governance and Administration	217

UGC NET PAPER – 1 P.Y.Q. ANSWER KEY

13.	• 2023 1 st & 2 nd Shift	227
	• 2022 1 st & 2 nd Shift	228
	• UNIT – 1	229
	• UNIT – 2	231
	• UNIT – 3	233
	• UNIT – 4	237
	• UNIT – 5	239
	• UNIT – 6	241
	• UNIT – 7	243
	• UNIT – 8	244
	• UNIT – 9	246
• UNIT – 10	248	

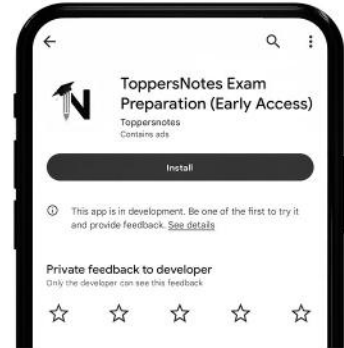
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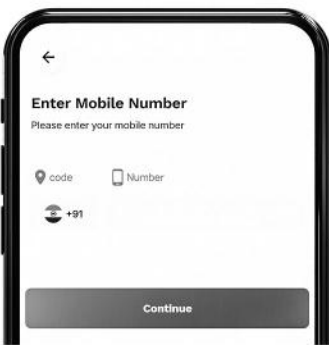
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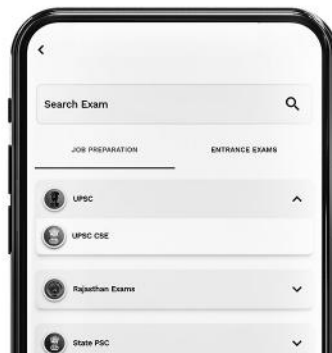
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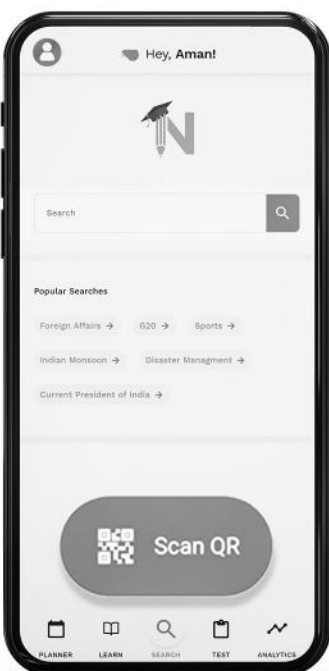
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UGC NET PAPER – 1

2023 – 1st Shift Paper



The following table shows the monthly income and various expenditures, of six friends A-F in absolute value or in percentage (in terms of monthly income) form. Some values (marked as '-') are missing in the table which you are expected to calculate if required. Based on the data in the table, answer the question:

Income and Expenditure Details

Friend	Monthly Income		Expenditure (in ₹) on			
	Salary (in ₹)	Incentive (in ₹)	Travel	Food	Accommodation	Shopping
A	92000	-	-	10960	10%	15%
B	-	14400	15280	17000	12400	-
C	-	12600	12%	8%	-	12%
D	88000	-	-	15120	9%	16800
E	80000	-	5%	-	8400	11240
F	-	11400	8400	8%	-	13720

Note:

- (a) Monthly Income = Salary + Incentive.
 (b) Incentive amounts to 15% of salary.
 (c) All six friends save 40% of their monthly income.
 (d) There is no expenditure other than those given in the table.

Q.1 What is the total amount (in ₹) spent by all the six friends together on travelling?

- (a) 85634 (b) 85643
 (c) 84634 (d) 84436

Q.2 What is the difference in the amount spent by B on food and shopping together and that of C on accommodation?

- (a) ₹ 11,412 (b) ₹ 11,532
 (c) ₹ 11,512 (d) ₹ 11,332

Q.3 What is the amount saved (in ₹) by all the six friends together?

- (a) 223760 (b) 237360
 (c) 237630 (d) 273360

Q.4 The annual income of D is ₹ less than that of A.

- (a) 4600 (b) 52200
 (c) 55200 (d) 4900

Q.5 Expenditure by A on travelling constitutes approximately _____% of the salary of F.

- (a) 30 (b) 38
 (c) 32 (d) 34

Q.6 Which tool is used to create online bulletin board where you can display information in the form of pictures, texts, videos etc.?

- (a) Quizzizz (b) Padlet
 (c) Screen Castify (d) Windows

Q.7 Which of the following are the advantages of lecture-cum-demonstration method?

- A. Clear and Permanent Knowledge
 B. Helping the task of the teacher
 C. Helpful in mental development
 D. Economical method

Choose the most appropriate answer from the options given below:

- (a) B and D only
 (b) A, C and D only
 (c) A, B, C and D
 (d) B and C only

Q.8 Which of the following are examples of Asynchronous communication?

- A. Blog
 B. Podcast
 C. Electronic Mail
 D. Discussion Forum
 E. Phone calls

Choose the most appropriate answer from the options given below:

- (a) B and E only (b) C, D and E only
 (c) A, C and D only (d) A, B, C and D only

Q.9 Which of the following are the causes of plateau associated with learning curve?

- A. Lack of balance among various phases of a complex skill
 B. Shifting of attention from one phase of performance to another
 C. Fatigue and boredom
 D. Positive interest and incentive.

Choose the most appropriate answer from the options given below:

- (a) A, B and C only (b) A and D only
 (c) B, C and D Only (d) A, B, C and D

Q.10 Which of the following is the best method of teaching?

- (a) To impart knowledge to students
 (b) To ask students to self-learn from books.
 (c) To start a discussion and encourage students to participate in it.
 (d) To ask students to go to the library.

Q.11 A prediction of relationships involving theoretical constructs is known as:

- (a) Operational hypothesis
- (b) General hypothesis
- (c) Non-directional hypothesis
- (d) Conceptual hypothesis

Q.12 The post-test only control group design avoids:

- (a) Non Cooperative participants
- (b) Sensitization of participants
- (c) Group Comparison
- (d) Experimental treatment

Q.13 Questions constructed in such a manner that suggest an expected answer are identified as:

- (a) Main questions
- (b) Meta questions
- (c) Lead questions
- (d) Suggestive questions

Q.14 Which of the following are ethical principles in research?

- A. Respect for participants
- B. Informed consent
- C. Justice for participants
- D. Voluntary deception
- E. Coercive consent

Choose the correct answer from the options given below:

- (a) A, B, C only
- (b) B, C, D only
- (c) C, D, E only
- (d) A, D, E only

Q.15 Given below are two statements :

Statement I : In case a research study leads to generation of more research, then we will say it contain heuristic value.

Statement II : The discussion section does not allow freedom and flexibility in writing to the researcher.

In the light of the above statement, choose the correct answer from the option given below:

- (a) Both Statement I and Statement II are correct.
- (b) Both Statement I and Statement II are incorrect.
- (c) Statement I is correct but Statement II is incorrect.
- (d) Statement I is incorrect but Statement II is correct.

Q.16 An individual's culture is affected due to

- (a) Public order
- (b) Public space
- (c) Private interests
- (d) Effective interaction

Q.17 According to the behavioural model, the communication approach is considered as:

- (a) Contrived
- (b) Natural
- (c) Reward-punishment based
- (d) Innate

Q.18 Which of the following are the characteristics of moderate approach to inter-cultural communication?

- A. Inter-cultural communication is unidisciplinary.
- B. A communicator is a change agent.
- C. A continuum is the representative of social change.
- D. Change is a response to both inside and outside stimuli.
- E. Culture and communication have limited linkages.

Choose the correct answer from the options given below :

- (a) A, B, C only
- (b) B, C, D only
- (c) C, D, E only
- (d) A, B, E only

Q.19 Given below are two statements:

Statement I: In mass communication, the news content includes social values also.

Statement II : News also contains ideology that changes according to times.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (a) Both Statement I and Statement II are correct.
- (b) Both Statement I and Statement II are incorrect.
- (c) Statement I is correct but Statement II is incorrect.
- (d) Statement I is incorrect but Statement II is correct.

Q.20 Given below are two statements:

Statement I: Bharatha Muni prescribed popular dialects for communication among the elites.

Statement II : Bharatha Muni also prescribed classical languages for common people for effective communication.

In the light of the above statements, choose the most appropriate answer from the options given below :

- (a) Both Statement I and Statement II are correct.
- (b) Both Statement I and Statement II are incorrect.
- (c) Statement I is correct but Statement II is incorrect.
- (d) Statement I is incorrect but Statement II is correct.

Q.21 What number would replace question mark? in the series given below?

1, 4, 11, 26, 57, 120, 247, ?

- (a) 424
- (b) 367
- (c) 255
- (d) 502

Q.22 A man walks 40 meters towards south. Then turning to his right he walks 40 meters again. Then he turns to his left and walks 20 meters. He again turns to his left and walks 40 meters. How far is the man now from his starting point?

- (a) 60 meters
- (b) 40 meters
- (c) 100 meters
- (d) 80 meters

Q.23 A person spends 20 % of his money for clothes. 10 % of the money is spent on books, 9 % for purchasing gifts for family and friends and 7 % on some other items. At the end he is left with ₹ 5,400 . How much money was there with the person initially?

- (a) ₹ 8,000 (b) ₹ 9,000
(c) ₹ 12,000 (d) ₹ 10,000

Q.24 If the length and breadth of a rectangular plot are increased by 25% and 40% respectively, then the new area of the plot shall be how many times the original area ?

- (a) 7/5 (b) 7/4
(c) 5/9 (d) 9/5

Q.25 Introducing a boy, a girl said, "He is the son of the daughter of the father of my uncle". How is the boy related to the girl ?

- (a) Uncle (b) Nephew
(c) Cousin (d) Brother-in-law

Q.26 "If I were, a heavy smoker, smoking would shorten my life. That's why I do not smoke. And I expect to live a long and healthy life". Which fallacy is committed in the above argument?

- (a) Existential fallacy
(b) Undistributed middle
(c) Affirming the consequent
(d) Denying the antecedent

Q.27 Identify the fallacy committed in the following argument: "My opponent cheated on his taxes. He hired an illegal migrant as a nanny. His views on tax reforms simply cannot be trusted".

- (a) Inappropriate authority
(b) Ad hominem
(c) Appeal to ignorance
(d) Begging the question

Q.28 Which of the following statement is logically equivalent to the statement "All tigers are hunting animals"?

- (a) Some hunting animals are tigers.
(b) No tigers are non-hunting animals.
(c) No hunting animals are tigers.
(d) Some hunting animals are not tigers.

Q.29 Which of the following statements are contradictory to each other?

- A. All human beings are mortal.
B. No human beings are mortal.
C. Some human beings are mortal.
D. Some human beings are not mortal.

Choose the most appropriate answer from the options given below:

- (a) A and B only (b) B and C only
(c) C and D only (d) B and D only

Q.30 According to Classical Indian school of logic knowledge derived from comparison and which roughly corresponds to analogy is:

- (a) Arthapatti (b) Anumāna
(c) Upamāna (d) Anuplabdhi

Q.31 The hardware address of a computer network device consists of 48 bits. Which of the following is a valid address in hexadecimal numbers?

- (a) 00E0071944A0
(b) 0A23B5
(c) 1E07FG124372
(d) 398A7E9412110408

Q.32 The computer uses a bootstrap. Which of the following shows the part of a computer of which the bootstrap is an example?

- (a) Application software
(b) Firmware
(c) Hard disk drive
(d) IP address

Q.33 Given below are two statements:

Statement I: One always uses CD-ROMs to save data.
Statement II : A computer has 2048 of RAM. That means computer has 1.2 GB of RAM.

In the light of the above statements, choose the correct answer from the options given below:

- (a) Both Statement I and Statement II are true.
(b) Both Statement I and Statement II are false.
(c) Statement I is true but Statement II is false.
(d) Statement I is false but Statement II is true.

Q.34 Which file formats are used to store music files?

- A. bmp
B. wav
C. mp3
D. htm
E. wma

Choose the correct answer from the options given below :

- (a) A, B and D only (b) A, D and E only
(c) B, C and D only (d) B, C and E only

Q.35 Match List – I with List – II

List – I (Internet Term)		List – II (Description)	
A.	Spyware	(I)	Malicious software installed on a user's hard drive or a web server, the software re-directs the user to a fake website without their consent or knowledge.
B.	Phishing	(II)	Websites designed to promote the building of

			online communities who share the same interest, usually free of charge, users can add friends post messages to each other and update personal profiles.
C.	Social networking sites	(III)	Legitimate – looking email sent to a user in the hope of gathering personal information, as soon as the recipient clicks on the link in email (or email attachment) they are sent to a fake website.
D.	Pharming	(IV)	Software that secretly gathers information by monitoring key presses on a user's keyboard, this information is relayed back to person who sent the software originally.

Choose the correct answer from the options given below :

- (a) A-I, B-II, C-III, D-IV (b) A-IV, B-II, C-III, D-I
 (c) A-II, B-IV, C-I, D-III (d) A-IV, B-III, C-II, D-I

Q.36 Solar ponds store solar thermal energy by?

- (a) Photovoltaic cells
 (b) Creating salt gradient
 (c) Using solar thermal collectors
 (d) Covering major portion of pond by plastic sheets

Q.37 Which of the following are responsible for formation and destruction of ozone (O₃) in upper atmosphere?

- A. Solar radiation
 B. Oxides of nitrogen (NO_x)
 C. Black Carbon
 D. Chlorine (Cl)
 E. Ammonia (NH₃)

Choose the most appropriate answer from the options given below:

- (a) A, B and D only (b) B, C and D only
 (c) C, D and E only (d) A, C and E only

Q.38 Which of the following are primary aerosols in atmosphere?

- A. Sea salt B. Black carbon
 C. Sulphate D. Nitrate
 E. Mineral particles

Choose the most appropriate answer from the options given below:

- (a) A, B and C only (b) B, C and D only
 (c) A, B and E only (d) C, D and E only

Q.39 Given below are two statements:

Statement I: Dose-response assessment is the process of determining whether or not a particular chemical is causally linked to particular health effect.

Statement II: Hazard identification is the process of characterizing the relationship between the dose of a toxic agent received and the incidence of an adverse health effect.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (a) Both Statement I and Statement II are correct.
 (b) Both Statement I and Statement II are incorrect.
 (c) Statement I is correct but Statement II is incorrect.
 (d) Statement I is incorrect but Statement II is correct.

Q.40 Lower level of Dissolved Oxygen (DO) in water

- A. is bad for human consumption.
 B. may have been caused due to presence of oxygen demanding wastes.
 C. threatens the fish and aquatic life.
 D. cannot be used for irrigation purposes.
 E. may cause undesirable taste and odour.

Choose the most appropriate answer from the options given below:

- (a) A, B and C only (b) A, B and D only
 (c) B, C and E only (d) C, D and E only

Q.41 The policy of privatization of higher education began during:

- (a) The first five year plan
 (b) The third five year plan
 (c) The sixth five year plan
 (d) The eighth five year plan

Q.42 Dr. B.R. Ambedkar was associated with the efforts in establishing:

- (a) Milind College
 (b) Aurangabad college
 (c) Maha Bodhi college
 (d) Nagpur college

Q.43 Given below are two statements :

Statement I: Constitution allows both central government and state governments to enact laws for the higher education system in India.

Statement II : More than 75 % of colleges in the field of higher education are in private sector (government aided and unaided).

In the light of the above statements, choose the correct answer from the options given below :

- (a) Both Statement I and Statement II are true.
- (b) Both Statement I and Statement II are false.
- (c) Statement I is true but Statement II is false.
- (d) Statement I is false but Statement II is true.

Q.44 Given below are two statements:

Statement I: The purpose of higher education is to promote critical and creative thinking abilities among students.

Statement II : Deemed Universities can design their own syllabus and course work but cannot grant degrees.

In the light of the above statements, choose the correct answer from the options given below :

- (a) Both Statement I and Statement II are true.
- (b) Both Statement I and Statement II are false.
- (c) Statement I is true but Statement II is false.
- (d) Statement I is false but Statement II is true.

Q.45 Given below are two statements :

Statement I: The All India Council of Technical Education (AICTE) was established in 1956 in order to ensure planned and coordinated development of technical education in India.

Statement II : Technical education was defined as programmes of education in engineering, technology, architecture, town planning, management, pharmacy and applied arts and crafts.

In the light of the above statements, choose the correct answer from the options given below :

- (a) Both Statement I and Statement II are true.
- (b) Both Statement I and Statement II are false.
- (c) Statement I is true but Statement II is false.
- (d) Statement I is false but Statement II is true.

Read the following passage and answer the question:

Social media platforms have significant advantage over news publishers because of their size and superior information about users. Driven by the need to generate the maximum possible returns for investors, they do not shy away from leveraging this advantage when negotiating commercial agreements.

While news publishers in many countries come together as a consortium to further their collective interests, the rivalry among news publishers prevents them from presenting a united front to bargain for their collective interests. As a result, in individual negotiations with social media platforms, the revenue share, if they ever get any, is trivial compared to the total money made by social media platforms.

Local news publishers, often very small, suffer disproportionately, to the extent that many have gone bankrupt in the last few years. Those who have survived have become more content-producing vendors. They exist

to feed the social media monster, which decides which article will appear in which readers feed to maximize advertising revenues. Journalistic responsibility to provide citizens with the information they need to make important decisions about their lives, communities and governments is seldom a consideration.

Q.46 Given below are two statements :

Statement I: News publishers have better information about their users as compared to social media platforms.

Statement II : Social media platforms are generally very particular in presenting correct information to the citizens.

In the light of the above statements, choose the correct answer from the options given below :

- (a) Both Statement I and Statement II are true.
- (b) Both Statement I and Statement II are false.
- (c) Statement I is true but Statement II is false.
- (d) Statement I is false but Statement II is true.

Q.47 Identify the correct statements from those given below:

- A. Social media platforms have impacted the local news publishers adversely.
- B. Social media platforms make much more money as compared to individual news publishers.
- C. News publishers are better placed than social media platforms because of their size and information they have about the users.

Choose the correct answer from the options given below:

- (a) A and B only
- (b) B and C only
- (c) A and C only
- (d) A, B and C

Q.48 Correct information is needed by the citizens to make important decisions about their

- A. communities
- B. lives
- C. governments
- D. newspaper vendors

Choose the correct answer from the options given below:

- (a) A, B and C only
- (b) B, C and D only
- (c) A, C and D only
- (d) A, B, C and D

Q.49 Given below are two statements :

Statement I: There is rivalry among news publishers.
Statement II : Many social media platforms have gone bankrupt.

In the light of the above statements, choose the correct answer from the options given below :

- (a) Both Statement I and Statement II are true.
- (b) Both Statement I and Statement II are false.
- (c) Statement I is true but Statement II is false.
- (d) Statement I is false but Statement II is true.

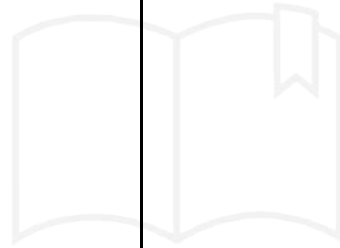
Q.50 Given below are two statements: One is labelled as Assertion A and the other is labelled as Reason R.

Assertion (A) : Social media platforms are able to control the type of content that will appear in a reader's feed.

Reason (R) : They do so because they are quite concerned about individual likes and dislikes of users.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (a) Both A and R are correct and R is the correct explanation of A.
- (b) Both A and R are correct but R is not the correct explanation of A.
- (c) A is correct but R is not correct.
- (d) A is not correct but R is correct.



Q.11 A major advantage of snowball sampling method is that it helps the research to focus only on

- (a) people in an area
- (b) migrants
- (c) people of particular interest
- (d) long standing residents

Q.12 Cronbach's alpha is used to assess an instrument's

- (a) Validity
- (b) Reliability
- (c) Randomness
- (d) Longevity

Q.13 In correlational research, a dependent variable is also referred to as

- (a) Predictor variable
- (b) Critical variable
- (c) Criterion variable
- (d) Extraneous variable

Q.14 Which of the following statements are true?

- A. Qualitative research has its own place in many areas of study.
- B. Quantitative studies have no place in social sciences,
- C. Qualitative and quantitative research should be totally segregated.
- D. Qualitative research has many approaches.
- E. Within qualitative research different schools of research perspectives have emerged.

Choose the correct answer from the options given below:

- (a) A, B and C only
- (b) B, C and D only
- (c) C, D and E only
- (d) A, D and E only

Q.15 Given below are two statements:

Statement I: In quantitative research, descriptive and inferential statistics are employed.

Statement II: In qualitative research, the scope of enquiry includes broad thematic concerns.

In light of the above statements, choose the most appropriate answer from the options given below:

- (a) Both Statement I and Statement II are correct.
- (b) Both Statement I and Statement II are incorrect.
- (c) Statement I is correct but Statement II is incorrect.
- (d) Statement I is incorrect but Statement II is correct.

Q.16 The conventional media of newspapers radio and television lack

- (a) Contents
- (b) Users
- (c) Face-to-face interaction
- (d) Distributive channels

Q.17 Which type of communication Howard Rheingold has called a "bloodless technological ritual"?

- (a) Print communication
- (b) Telephone communication
- (c) Broadcast communication
- (d) Internet communication

Q.18 According to the transmission models of communication, communication is a/an

- (a) Intra-personal process
- (b) Instrumental act
- (c) Language act
- (d) Ritualistic process

Q.19 Given below are two statements:

Statement I : For scholar like Guy Debord, modern media are agents of political power as well as urbanisation.

Statement II : Modern media make people accept inequality and hierarchy, say critics.

In light of the above statements, choose the most appropriate answer from the options given below:

- (a) Both Statement I and Statement II are correct.
- (b) Both Statement I and Statement II are incorrect.
- (c) Statement I is correct but Statement II is incorrect.
- (d) Statement I is incorrect but Statement II is correct.

Q.20 Given below are two statements:

Statement I : For Derrida, the meaning of a signifier in communication will always be different in its meaning at the point of consumption from the point of production.

Statement II: It is therefore stated that the original context of meaning cannot be reproduced.

In light of the above statements, choose the correct answer from the options given below:

- (a) Both Statement I and Statement II are true.
- (b) Both Statement I and Statement II are false.
- (c) Statement I is true but Statement II is false.
- (d) Statement I is false but Statement II is true.

Q.21 In a family, the sum of the ages of father, mother and son is 90 years as on today. The age of father is 6 times to that of the son. The age of son will be half to that of his father when the sum of the ages of all the members i.e father, mother and son becomes exactly twice of the sum of their ages today. Find the present age of mother.

- (a) 33 years
- (b) 35 years
- (c) 37 .5 years
- (d) 40 years

Q.22 There are two boxes of apples having high quality apples. Box A contains 1 / 5 more apples than box B. If box B has 8 apples less than the box A, then find out how many apples are there in box A ?

- (a) 48
- (b) 56
- (c) 40
- (d) 32

Choose the correct answer from the options given below:

- (a) A only (b) B and C only
(c) A and C only (d) C only

Q.35 Which of the following digital communication technologies use asynchronous communication?

- A. Forums**
B. Video Conferencing
C. Email
D. Instant Messaging

Choose the correct answer from the options given below:

- (a) A and B only (b) A and D only
(c) A and C only (d) C and D only

Q.36 Which one of the following oxides of nitrogen is a Green House Gas (GHG)?

- (a) NO₂ (Nitrogen dioxide)
(b) N₂O (Nitrous oxide)
(c) NO (Nitric Oxide)
(d) N₂O₃ (Dinitrogen trioxide)

Q.37 Which of the following Particulate Matter (PM) type is also commonly known as Respirable Suspended Particulate Matter (RSPM)?

- (a) PM₁ (b) PM_{2.5}
(c) PM₅ (d) PM₁₀

Q.38 Given below are two statements:

Statement I: Formaldehyde, widely used in wood products and fabrics is a very strong allergen.

Statement II: Formaldehyde concentrations in indoor air can be thousands of times higher than the outdoor air.

In light of the above statements, choose the most appropriate answer from the options given below:

- (a) Both Statement I and Statement II are correct.
(b) Both Statement I and Statement II are incorrect.
(c) Statement I is correct but Statement II is incorrect.
(d) Statement I is incorrect but Statement II is correct.

Q.39 Thermal Pollution

- (a) is a pollution of hot springs
(b) is a pollution of water body
(c) is a pollution of air.
(d) is increase of temperature in urban environment in comparison to surrounding suburban environment.

Q.40 Given below are two statements:

Statement I: Grid-connected photovoltaic system supplements the grid power during the daytime.

Statement II: Grid connected photovoltaic system does not require additional equipment to control voltage etc.

In light of the above statements, choose the most appropriate answer from the options given below:

- (a) Both Statement I and Statement II are correct.
(b) Both Statement I and Statement II are incorrect.
(c) Statement I is correct but Statement II is incorrect.
(d) Statement I is incorrect but Statement II is correct.

Q.41 How many universities in the country are referred to as UGC-CARE universities?

- (a) 3 (b) 4
(c) 5 (d) 6

Q.42 A UGC review committee was appointed for sociology in 1961 that was headed by

- (a) B. Kuppaswamy
(b) M. N. Srinivas
(c) D. S. Kothari
(d) S. R. Ranganathan

Q.43 Given below are two statements:

Statement I: Deemed Universities can frame their own guidelines regarding admission and fees and can grant degrees.

Statement II: The Governor of the state is the chancellor of deemed universities.

In light of the above statements, choose the correct answer from the options given below:

- (a) Both Statement I and Statement II are true.
(b) Both Statement I and Statement II are false.
(c) Statement I is true but Statement II is false.
(d) Statement I is false but Statement II is true.

Q.44 Given below are two statements:

Statement I : The first digital university of India has been established in Kerala.

Statement II : India's first Defence university is situated in the state of Haryana.

In light of the above statements, choose the most appropriate answer from the options given below:

- (a) Both Statement I and Statement II are correct.
(b) Both Statement I and Statement II are incorrect.
(c) Statement I is correct but Statement II is incorrect.
(d) Statement I is incorrect but Statement II is correct.

Q.45 Which of the following were the outcomes of the introduction of English system of higher education in India?

- A. Status quo in Indian education system.
B. Relegation of women's education to the lowest level.
C. Rise of social consciousness in India.
D. Emphasis on material prosperity.
E. Acquaintance of western literature and scientific knowledge.

Choose the correct answer from the options given below:

- | | |
|---------------------|---------------------|
| (a) A, B and E only | (b) B, C and D only |
| (c) C, D and E only | (d) A, C and E only |

Read the passage and answer the questions that follow:

In 1964, the African nation of Zambia and the East Asian country of South Korea were at roughly equivalent levels of development. Indeed, when Zambia achieved its independence in 1964, its prospects appeared far more promising than those of South Korea. Zambia was rich in copper, and its newly elected president, Kenneth Kaunda, was popular at home and respected abroad for his intelligence and seriousness of purpose. South Korea, in contrast, had no resources to speak of, was ruled by a despised and ridiculed military dictatorship, and depended heavily on American aid, which was being cut back.

More than five decades later, the two countries could not be more different. The economy of Zambia has failed miserably, In the thirty years after Kaunda's election, Zambian income per person fell until, by the mid-1990s, the average Zambian had barely half the income he'd had at independence. Faced with this development failure, Zambians voted Kaunda out of office amid substantial political unrest and widespread food riots. The government's failures were compounded by the AIDS epidemic that swept Africa in the 1990 s.

While conditions have improved somewhat since then, Zambia still has one of the lowest standards of living in the world.

Q.46 Given below are two statements, one is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): Zambia was a rich and developed nation in 1964.

Reason (R): It had rich copper resources.

In light of the above statements, choose the most appropriate answer from the options given below:

- (a) Both (A) and (R) are correct and (R) is the correct explanation of (A).
- (b) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).
- (c) (A) is correct but (R) is not correct.
- (d) (A) is not correct but (B) is correct.

Q.47 Identify the correct statements:

- A. Conditions in Zambia have improved since the 1990 s.
- B. Zambia has one of the lowest living standards in the world.
- C. The Zambian leader Kenneth Kaunda was quite popular at home in 1990 s.

Choose the correct answer from the options given below:

- | | |
|------------------|------------------|
| (a) A and B only | (b) B and C only |
| (c) A and C only | (d) A, B and C |

Q.48 Given below are two statements, one is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): South Korea developed much faster than Zambia after 1964.

Reason (R): In 1964 , conditions in South Korea were far more promising for growth and development than in Zambia.

In light of the above statements, choose the most appropriate answer from the options given below:

- (a) Both (A) and (R) are correct and (R) is the correct explanation of (A).
- (b) Both (A) and (R) are correct but (R) is not the correct explanation of (A).
- (c) (A) is correct but (R) is not correct.
- (d) (A) is not correct but (R) is correct.

Q.49 Given below are two statements:

Statement I: In 1964, Zambia was far more developed than South Korea.

Statement II: Zambia was ruled by an elected president in 1964 .

In light of the above statements, choose the correct answer from the options given below:

- (a) Both Statement I and Statement II are true.
- (b) Both Statement I and Statement II are false.
- (c) Statement I is true but Statement II is false.
- (d) Statement I is false but Statement II is true.

Q.50 Given below are two statements, one is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): The Zambian leader was quite popular in his country in 1964

Reason (R): Zambia achieved significant growth in its economy under his leadership.

In light of the above statements, choose the most appropriate answer from the options given below:

- (a) Both (A) and (R) are correct and (R) is the correct explanation of (A).
- (b) Both (A) and (R) are correct but (R) is not the correct explanation of (A).
- (c) (A) is correct but (R) is not correct.
- (d) (A) is not correct but (R) is correct.

UGC NET PAPER – 1 2022 – 1st Shift Paper



Question No: 1-5

The following table shows the percentage (%) distribution of five different types of Cars (A-E) produced by a Company during two consecutive years 2019 and 2020. The total number of Cars produced was 4, 50,000 in the year 2019 and 5, 20,000 in the year 2020. Based on the data in the table, answer the questions 1-5:

Year-wise Percentage Distribution of Production of Cars

Year	Type of Car Produced (in %)				
	A	B	C	D	E
2019	15%	25%	30%	10%	20%
2020	10%	30%	25%	25%	10%

- Q.1** If the number of Type-A cars manufactured in 2020 was the same as that of 2019, then what would have been its approximate percentage share in the total production of 2020?
 (a) 11% (b) 13%
 (c) 15% (d) 9%
- Q.2** If 85% of Type-E cars produced during 2019 and 2020 together are sold by the Company, then how many Type- E cars are left unsold by the company?
 (a) 21825 (b) 29100
 (c) 25200 (d) 21300
- Q.3** If the percentage production of Type-B cars in 2020 was the same as that of 2019, then what would have been the number of Type-B cars produced in 2020?
 (a) 112500 (b) 120000
 (c) 130000 (d) 135000
- Q.4** What is the ratio of number of Type-C cars produced in 2019 to the number of Type-D cars produced in 2020?
 (a) 29:27 (b) 23:22
 (c) 27:26 (d) 27:23
- Q.5** What was the difference in the production of number of Type-C cars between 2019 and 2020?
 (a) 5000 (b) 7500
 (c) 8500 (d) 2500
- Q.6** In a test consisting of 150 questions carrying 1 mark each. Rishab answered 80% of the first 75 questions correctly. What percent of the other 75 questions does he need to answer correctly to score 60% overall?
 (a) 20 (b) 40
 (c) 50 (d) 60

- Q.7** The open source platform 'Course Builder on which NPTEL courses are seen, was created by _____.
 (a) Microsoft (b) Google
 (c) Oracle (d) Wipro
- Q.8** Identify the correct sequence of information processing in communication
 (A) Input (B) Output
 (C) Data entry (D) Processing
 (E) Storage
Choose the correct answer from the options given below:
 (a) (A), (B), (E), (D), (C) (b) (B), (D), (E), (A), (C)
 (c) (C), (A), (D), (E), (B) (d) (A), (C), (D), (E), (B)
- Q.9** Following activities are related to the conduct of experiment in social research:
 (A) Control the experimental environment
 (B) Pilot test, revise and test
 (C) Empathy with the participants
 (D) Praising the good qualities of the participant
 (E) Specify the treatment levels
Choose the most appropriate answer from the options given below:
 (a) (A), (B), (C) Only (b) (B), (C), (E) Only
 (c) (C), (D), (E) Only (d) (A), (B), (E) Only
- Q.10** Given below are two statements:
Statement I: Classical smog is formed when oxides of nitrogen combine with particulate matter especially in summer season.
Statement II: Classical smog reduces atmospheric visibility to a great extent.
In the light of the above statements, choose the correct answer from the options given below :
 (a) Both Statement I and Statement II are true
 (b) Both Statement I and Statement II are false
 (c) Statement I is true but Statement II is false
 (d) Statement I is false but Statement II is true
- Q.11** Given below are two statements:
Statement (I): The disadvantage of inter-personal communication is the availability of immediate feedback.
Statement (II): The greatest advantage of mass communication is its delayed feedback
In the light of the above statements. Choose the most appropriate answer from the options given below:
 (a) Both Statement (I) and Statement (II) are correct
 (b) Both Statement (I) and Statement (II) are incorrect
 (c) Statement (I) is correct but Statement (II) is incorrect
 (d) Statement (I) is incorrect but Statement (II) is correct

Q.12 Which among the following was proposed by Kothari commission vis-a-vis language?

- (a) Use of mother tongue as a medium of instruction
- (b) Use of Hindi as a medium of instruction
- (c) Two-language formula
- (d) Three language formula

Q.13 Koulberg's theory of moral development comprises of following stages:

- (A) Obedience orientation
- (B) Intellectual disability orientation
- (C) Rewards/ Exchange orientation
- (D) Law and order orientation
- (E) Social contract orientation

Choose the most appropriate answer from the options given below

- (a) (A), (B), (C), (D) Only
- (b) (A), (C), (D), (E) Only
- (c) (B), (C), (D), (E) Only
- (d) (A), (B), (D) (E) Only

Q.14 A man who can swim 48 meter/minute in still water swims 200 meter against the current and 200 meter with the current. If the difference between these two times is 10 minutes, then what is the speed of the current?

- (a) 30 meter/minute
- (b) 31 meter/minute
- (c) 29 meter/minute
- (d) 32 meter/minute

Q.15 Which of the following file formats are appropriate for distributing video files across the internet?

- (A) FLA.
- (B) .MP3
- (C) .WMA
- (D) .AIF
- (E) .AVI

Choose the correct answer from the options given below:

- (a) (B) and (C) only
- (b) (A) and (E) only
- (c) (D) and (E) only
- (d) (C) and (D) only

Q.16 Match List I with List II

List I	List II
Medium	User vehicle
(A) Newspaper	(i) URSA mini pro
(B) Radio	(ii) Satellite dishes
(C) Television	(iii) Electromagnetic waves
(D) Film	(iv) Rubber plate

Choose the correct answer from the options given below:

- (a) (A)-(IV); (B)-(III); (C)-(II); (D)-(I)
- (b) (A)-(III); (B)-(II); (C)-(I); (D)-(IV)
- (c) (A)-(II); (B)-(I); (C)-(IV); (D)-(III)
- (d) (A)-(I); (B)-(II); (C)-(III); (D)-(IV)

Q.17 In ancient Indian education system. learners were given training in following occupations in the fields of

- (A) Architecture
- (B) Animal Husbandary
- (C) Agriculture
- (D) Administration
- (E) Dairy farming

Choose the correct answer from the options given below:

- (a) (A), (C), (E) only
- (b) (B), (C), (E) only
- (c) (A), (B), (C), (E) only
- (d) (B), (C), (D), (E) only

Q.18 Given below are two statements:

Statement I: An inference which is based on the middle term being only positively related to the major term is called Kevalanvayi.

Statement II: In Kevalanvayi anumana, the knowledge of vyapti between the middle and major terms is arrived at through the method of argument in absence.

In the light of the above statements, choose the correct answer from the options given below:

- (a) Both Statement I and Statement II are true
- (b) Both Statement I and Statement II are false
- (c) Statement I is true but Statement II is false
- (d) Statement I is false but Statement II is true

Q.19 Given below are two statements: One is labelled as Assertion (A) and the other is labeled as Reason (R).

Assertion (A): A valid deductive argument with all true premises will lead to a true conclusion.

Reason (R): In a valid deductive argument, the conclusion follows from the premises with absolute necessity.

In the light of the above statements, choose the correct answer from the options given below:

- (a) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (b) Both (A) and (R) are true but (R) is NOT the correct explanation of (A)
- (c) (A) is true but (R) is false
- (d) (A) is false but (R) is true

Q.20 Which of the following are true with regard to mass communication?

- (A) Messages are prepared by non-professionals
- (B) Messages are prepared by professionals
- (C) Messages are rapidly disseminated
- (D) Messages are supposed to be understood
- (E) Media audiences are homogenous

Choose the correct answer from the options given below:

- (a) (A), (B), (C) only
- (b) (C), (D), (E) only
- (c) (B), (C), (D) only
- (d) (A), (D), (E) only

Q.21 Given below are two statements: One is labelled as Assertion (A) and the other is labeled as Reason (R).

Assertion (A): Sound is non eternal, because it is caused.

Reason (R): The middle term does not prove the eternality of sound but it's non-eternality.

In the light of the above statements, choose the correct answer from the options given below:

- (a) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (b) Both (A) and (R) are true but (R) is NOT the correct explanation of (A)
- (c) (A) is true but (R) is false
- (d) (A) is false but (R) is true

Q.22 Which one of the following formal fallacies is committed in the given argument?

All snakes are reptiles.

Some snakes are poisonous creatures.

Therefore all poisonous creatures are reptiles.

- (a) Fallacy of Illicit process of major term
- (b) Fallacy of Illicit process of minor term
- (c) Fallacy of undistributed middle term
- (d) Fallacy of four terms

Q.23 Identify the correct arrangement of the following different types of computer networks in the descending order of their geographic area coverage.

- (A) MAN (B) WAN
- (C) LAN

Choose the correct answer from the options given below:

- (a) (A), (B), (C) (b) (B), (C), (A)
- (c) (B), (A), (C) (d) (C), (A), (B)

Q.24 Which among the following is a valid criticism of experimental method in social sciences?

- (a) Impossible to conduct in social situation
- (b) Artificiality of laboratory condition
- (c) Unavailability good experiments in social sciences
- (d) Social research problems cannot be studied experimentally

Q.25 Given below are two statements in respect of Computers:

Statement (I): A DVD-ROM is an optical storage media and it can be written many times. Statement (II): Software is loaded into secondary storage from RAM and is then executed by CPU.

In the light of the above statements, choose the correct answer from the options given below:

- (a) Both Statement (a) and Statement (II) are true
- (b) Both Statement (I) and Statement (II) are false
- (c) Statement (I) is true but Statement (II) is false
- (d) Statement (I) is false but Statement (II) is true

Q.26 The simple interest on a sum of money is $\frac{1}{9}$ of the principal and the number of years is equal to the rate percent per annum. The rate percent per annum is:

- (a) 3% (b) 0.33%
- (c) 3.33% (d) 2.33%

Q.27 As envisaged in National Education Policy (2020), all Higher Educational Institutions will aim to have a student strength of _____ - by 2040.

- (a) ≥ 5000 (b) ≥ 4000
- (c) ≥ 3000 (d) ≥ 2500

Q.28 IIT Bombay X is a non-profit MOOC platform developed by IIT Bombay using the open source platform.

- (a) Joomla (b) Sakai
- (c) Drupal (d) Open edX

Q.29 Given below are two statements :

Statement (I): If the length of a psychological test is increased it improves both reliability and validity.

Statement (II): Score of a test can be interpreted without referring to its norm.

In the light of the above statements. Choose the most appropriate answer from the options given below:

- (a) Both Statement (I) and Statement (II) are correct
- (b) Both Statement (I) and Statement (II) are incorrect
- (c) Statement (I) is correct but Statement (II) is incorrect
- (d) Statement (I) is incorrect but Statement (II) is correct

Q.30 In a learner centered teaching environment, teachers

- (a) Recognize that all learners are unique and utilise different teaching styles
- (b) Do not provide structure and direction
- (c) Make decisions about how and what learners will learn
- (d) Do not facilitate learner's decision making process

Q.31 If a survey is conducted telephonically, which among the following statements is true?

- (a) It improves quality of data
- (b) It improves the validity research
- (c) It reduces the cost of data collection
- (d) It makes participants comfortable

Q.32 A software is termed as an open source software if

- (a) The developer company is open 24 x 7
- (b) Its source code is available to share, study and modify
- (c) It can be downloaded from the Internet
- (d) It is available free of cost

- Q.33 Source of arsenic pollution in the ground water is**
 (a) Industrial effluents
 (b) Deep underground formations
 (c) Dyeing industries
 (d) Agricultural wastes

Q.34 Given below are two statements: One is labelled as Assertion (A) and the other is labeled as Reason (R).

Assertion (A): Energy produced from biomass is considered 'carbon neutral'.

Reason (R): Biomass does not add CO₂ to the atmosphere.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (a) Both (A) and (R) are correct and (R) is the correct explanation of (A)
 (b) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A)
 (c) (A) is correct but (R) is not correct
 (d) (A) is not correct but (R) is correct

Q.35 Match List I with List II

List I	List II
Research forms	Description
(A) Qualitative Research	(i) File drawer problem
(B) Quantitative Research	(ii) Convergence of findings based multiple methods
(C) Triangulation	(iii) Statistical analysis
(D) Meta-analysis	(iv) Interpretive

Choose the correct answer from the options given below:

- (a) (A)-(iii); (B)-(ii); (C)-(iv); (D) (i)
 (b) (A)-(iv); (B)-(iii); (C)-(ii); (D) - (i)
 (c) (A)-(i); (B)-(iv); (C)-(ii); (D)-(iii)
 (d) (A)-(iii); (B)-(ii); (C)-(iv); (D)-(i)

Q.36 Match List I with List II

List I	List II
In a square of opposition	Resultant
(A) 'A' being given as true	(i) 'O' is undetermined
(B) 'E' being given as true	(ii) T is undetermined
(C) T being given as true	(iii) T is true
(D) 'O' being given as true	(iv) T is false

Choose the correct answer from the options given below:

- (a) (A)-(ii); (B)-(iv); (C)-(i); (D)-(iii)
 (b) (A)-(iv); (B)-(i); (C)-(iii); (D)-(ii)
 (c) (A)-(i); (B)-(iv); (C)-(ii); (D)-(iii)
 (d) (A)-(iii); (B)-(iv); (C)-(i); (D)-(ii)

Q.37 In the context of vocational education, the organisation 'NSDC' is

- (a) National Skill Development Council
 (b) National Skill Development Corporation
 (c) National Skill Documentation Centre
 (d) National Sector Development Corporation

Q.38 Match List I with List II

List I	List II
Child Development	Feature
(A) Cliques	(i) Less intimate, more loosely organized groups
(B) Crowds	(ii) General sense of oneself along with all their beliefs, emotions and attitudes.
(C) Identity	(iii) Exploration with a delay in commitment to personal and occupational choices
(D) Moratorium	(iv) Relatively small, friendship based groups

Choose the correct answer from the options given below:

- (a) (A)-(iii); (B)-(iv); (C)-(i); (D)-(ii)
 (b) (A)-(ii); (B)-(iii); (C)-(iv); (D)-(i)
 (c) (A)-(i); (B)-(ii); (C)-(iii); (D)-(iv)
 (d) (A)-(iv); (B)-(i); (C)-(ii); (D)-(iii)

Q.39 What is the correct order of Global Warming Potential (GWP) of following atmospheric chemical species?

- (A) Chlorofluoro Carbon (CFC)
 (B) Methane (CH₄)
 (C) Carbon dioxide (CO₂)
 (D) Nitrous oxide (N₂O)

Choose the correct answer from the options given below:

- (a) D > C > B > A
 (b) C < B < D < A
 (c) A > B > C > D
 (d) A < C < D < B

Q.40 Given below are two statements:

Statement (I): One-fourth of sixty percent of a number is equal to two-fifth of twenty percent of another number. Then the respective ratio of the first number to the second number is 8:15.

Statement (II): A student is studying for a test from 11:00 am to 8:00 pm on weekdays and one-third of that time on Saturday. On Sunday, he takes a break and goes for a movie. The fractional part of the entire week that the student is studying is 3/7.

In the light of the above statements, choose the correct answer from the options given below:

- (a) Both Statement (I) and Statement (II) are true
 (b) Both Statement (I) and Statement (II) are false
 (c) Statement (I) is true but Statement (II) is false
 (d) Statement (I) is false but Statement (II) is true