

UGC NET June2020 24th September Evening Shift

1.) The Phrase T-L model of teaching implies that

- (A) Teaching and learning are independent acts
- (B) Teaching and learning are integrally related acts
- (C) Teaching aims at learning
- (D) Teaching causes learning

2.) From the following list of learner characteristics, identify those which are associated with 'field independent' learners.

- A. Focuses on facts and principles
- B. Perceives global aspects of concepts and materials
- C. Prefers and likes to compete
- D. Can organize information by himself/herself
- E. Likes to cooperate

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) C, D and E only

3.) Which of the following are said to be style-related competencies of an effective teaching?

- A. Organized demeanor which means being orderly, clear and in control
- B. Literacy which implies general knowledge as well as good at reading and writing
- C. Self-efficacy which refers to a person's self-perceived capacity to perform a task
- D. Flexibility which means being sensitive and lenient
- E. Evaluating and providing feedback

Choose the correct answer from the options given below:

- (A) A and D only
- (B) B and C only
- (C) C and D only
- (D) D and E only

4.) Match List I with List II

List I	List II
Scale of measurement	Properties
A. Nominal	I. Classification and order
B. Ordinal	II. Classification, order and equal units
C. Interval	III. Classification, order, equal units and absolute zero
D. Ratio	IV. Classification only

Choose the correct answer from the options given below:

- (A) A - I, B - II, C - III, D- IV
- (B) A - II, B - I, C - IV, D - III
- (C) A - III, B - II, C - IV, D - I
- (D) A - IV, B - I, C - II, D - III

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

Assertion A: Use of ICT is justified during teaching with a view to optimize learning outcomes.

Reason R: Learning outcomes are contingent on use of ICT during teaching.

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

6.) A teacher proposes to find out the effect of praise and encouragement during a teaching-learning session based on Skinner's theory of reinforcement. What type of research will it belong to?

- (A) Fundamental research
- (B) Evaluative research
- (C) Action research
- (D) Applied research

7.) Given below are two statements

Statement I: All research adds to the corpus of knowledge by advancing a theory.

Statement II: The focus of action research is basically on the amelioration of prevalent practices.

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

8.) Match List I with List II

List I	List II
Key research terms	Description
A. Research problems	I. Devices using which data are gathered
B. Research hypothesis	II. A subset drawn from a defined set or universe
C. Sample of study	III, A tentative solution or answer to a research question
D. Research tools	IV. The research question which has to be answered

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 - I, B - II, C - III, D - IV
- (D) A - III, B - IV, C - I, D - II

9.) Arrange the steps in a hypothetico-deductive research in the correct sequence:

- A. Identifying and defining a research problem
- B. Defining the population and drawing a sub-set therefrom
- C. Data collection using appropriate research tasks followed by data analyses
- D. Hypothesis formulation and developing a design of research
- E. Taking a decision on the substantive research hypothesis via testing of the Null hypothesis (H_0)

Choose the correct answer from the options given below:

- (A) A, D, B, C, E
- (B) A, B, C, D, E
- (C) A, C, B, D, E
- (D) B, A, C, D, E

10.) Which of the following sampling techniques in research imply randomization and equal probability of drawing the units?

- A. Quota sampling
- B. Snowball sampling
- C. Stratified sampling
- D. Dimensional sampling
- E. Cluster sampling

Choose the correct answer from the options given below:

- (A) A and B only
- (B) B and C only
- (C) C and E only
- (D) D and E only

Paragraph: In the narrowest sense, price is the amount of money charged for a product or a service. More broadly, price is the sum of all the values that customers give up to gain the benefits of having or using a product or service. Historically, price has been the major factor affecting buyer choice. In recent decades, however, nonprice factors have gained increasing importance. Even so, price remains one of the most important elements that determines a firm's market share and profitability.

Price is the only element in the marketing mix that produces revenue; all other elements present costs. Price is also one of the most flexible marketing mix elements. Unlike product features and channel commitments, prices can be changed quickly. At the same time, pricing is the number one problem facing many marketing executives, and many companies do not handle pricing well. Some managers view pricing as a big headache, preferring instead to focus on other marketing mix elements. However, smart managers treat pricing as a key strategic tool for creating and capturing customer value. Prices have a direct impact on a firm's bottom line. A small percentage improvement in price can generate a large percentage increase in profitability. More important, as part of a company's overall value proposition, price plays a key role in creating customer value and building customer relationships. "Instead of running away from pricing," says an expert, "savvy marketers are embracing it".

The price the company charges will fall somewhere between one that is too low to produce a profit and one that is too high to produce any demand. It summarizes the major considerations in setting price. Customer perceptions of the product's value set the ceiling for prices. If customers perceive that the product's price is greater than its value, they will not buy the product. Likewise, product costs set the floor for prices. If the company prices the product below its costs, the company's profits will suffer. In setting its price between those two extremes, the company must consider several external and internal factors, including competitors' strategies and prices, the overall marketing strategy and mix, and nature of the market and demand.

11.) Historically price was considered important because:

- (A) Sellers were always benefitted

- (B) Money was charged for product or service
- (C) It provided options for buyers
- (D) It promoted non-price factors

12.) Why is price different from other elements in the marketing mix?

- (A) It offsets cost
- (B) It generates revenue
- (C) It is rigid in character
- (D) It ensures channel commitment

13.) What is the perception of smart managers regarding pricing?

- (A) It is a strategic tool for consumer value
- (B) It invites issues
- (C) It is better to focus on other elements in the marketing mix
- (D) It is of indirect value to the firm

14.) Which of the following is the major determinant of pricing for product or service?

- (A) High demand
- (B) Low demand
- (C) Customer's value perception
- (D) Company's quest for high profitability

15.) What are the other factors influencing or setting the price for products or services?

- A. Competitors' strategies
- B. Over-all marketing mix
- C. Type of market
- D. Pricing from one extreme to the other
- E. Predators pricing strategies

Choose the correct answer from the options given below:

- (A) A, D and E only
- (B) A, B and C only
- (C) C, D and E only
- (D) B, C and D only

16.) When communication enhances the interaction of learners, it is

- (A) Physiological
- (B) Psychological
- (C) Artistic
- (D) Transient

17.) Classroom communication is:

- A. Goal-oriented
- B. Style-centric
- C. Collaborative
- D. Vertical
- E. Non-rhetorical

Choose the correct answer from the options given below:

- (A) A and B only

- (B) B and D only
- (C) A and C only
- (D) D and E only

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

Assertion A: Allowing an issue to fester will contribute to effective communication

Reason R: A good communicator will address an issue in the classroom before it becomes precarious

In 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

19.) Match List I with List II

List I	List II
Communication barriers	Description
A. Semantic	I. Lack of physical clarity in channel
B. Psychological	II. Faulty message
C. Personal	III. Poor retention
D. Physical	IV. Lack of time

Choose the correct answer from the options given below:

- (A) A - I, B - II, C - III, D - IV
- (B) A - II, B - III, C - IV, D - I
- (C) A - III, B - IV, C - I, D - II
- (D) A - IV, B - I, C - II, D - III

20.) Given below are two statements:

Statement I: Signs and symbols have internal relations to produce meanings

Statement II: This is possible because of a network of signs through such relations

In light of the above statements, choose the most appropriate 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

21.) A man covers a distance of 22 km in 4 hours by initially walking and then jogging at speed of 4 km/hour and 10 km/hour, respectively. The distance covered by him during walking is:

- (A) 10 km
- (B) 12 km
- (C) 15 km
- (D) 18 km

22.) A rational number has its denominator greater than its numerator by 6. If the numerator is

increased by 4 and the denominator is decreased by 8, the number becomes $\frac{5}{3}$. What is the original rational number?

- (A) $\frac{11}{17}$
- (B) $\frac{5}{11}$
- (C) $\frac{7}{13}$
- (D) $\frac{13}{19}$

23.) Consider the following number series:

0, 6, 24, 60, 120, X

What is the value of term X?

- (A) 180
- (B) 210
- (C) 240
- (D) 156

24.) Two water pipes can fill a tank in 10 minutes and 15 minutes, respectively, if each of them is used separately. If both the pipes are used to fill the tank simultaneously, how long will it take to fill the tank?

- (A) 6 minutes
- (B) 8 minutes
- (C) 7.5 minutes
- (D) 9 minutes

25.) What is the next term in the following letter series?

aceg, cegi, egik, gikm

- (A) jlor
- (B) hjlo
- (C) ikmo
- (D) ikmq

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

Assertion A: Substance is self-caused, self-conceived and self-existent.

Reason R: Substance is not caused by other causal sources but is conceived by something else and is also existent on that.

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

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

Assertion A: All perceptions seem entirely loose and separate. They are conjoined but not necessarily connected

Reason R: Since the perception of hardness is not necessarily connected with its colour, it can be said that perceptions are loosely connected

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

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

Assertion A: If there is a contestation between *Sruti* and *Smriti*, *Sruti* prevails over *Smriti*

Reason R: *Sruti* represents the philosophical aspect of the Vedas and Upanishads, while *Smriti* is an application of the philosophical ideas.

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

29.) Quantity and quality of a categorical proposition decide:

- (A) Validity
- (B) Invalidity
- (C) Mood
- (D) Figure

30.) Which one of the following decides the figure of a categorical proposition?

- (A) Major term
- (B) Minor term
- (C) Middle term
- (D) Copula

Based on the data in the table, answer the questions that follow:

Consider the following table which contains year-wise data of installed Renewable Energy capacity for four countries (X, Y, Z, T) over a period of 5 years from 2015 to 2019.

Year\Country	X	Y	Z	T
2015	10	15	08	12
2016	13	18	10	13
2017	15	20	12	15

2018	20	20	15	18
2019	22	24	20	20

31.) Between 2016 to 2017, which country registered maximum growth (%) in installed capacity of Renewable Energy?

- (A) X
- (B) Z
- (C) Y
- (D) T

32.) Which country registered maximum growth (%) by 2019 with reference year 2015?

- (A) Z
- (B) T
- (C) X
- (D) Y

33.) For the country 'Y', what is the average annual growth (%) of Renewable Energy capacity?

- (A) $\approx 10.85\%$
- (B) $\approx 12.77\%$
- (C) $\approx 13.25\%$
- (D) $\approx 11.65\%$

34.) In any given year, compared to the previous year which country(s) registered maximum growth (%)?

- (A) T
- (B) Z and Y
- (C) Y
- (D) X and Z

35.) Taking all four countries together, what is the over-all increase (%) in installed capacity of Renewable Energy in the year 2019, with reference to 2015?

- (A) 52.32 %
- (B) 91.11 %
- (C) 117.32 %
- (D) 121.81 %

36.) What is the full form of the abbreviation BIOS?

- (A) Big Information Online System
- (B) Binary Input Output Software
- (C) Basic Input Output System
- (D) Binary Inner Open Software

37.) Computer hardware consists of

- (A) Computer table
- (B) Monitor and CPU
- (C) Software

(D) Google

38.) Which of the following is a data visualization method?

- (A) Line
- (B) Circle and Triangle
- (C) Pie chart and Bar chart
- (D) Pentagon

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

Assertion A: Nowadays many online courses are available and their popularity is increasing

Reason R: Selecting the right course from many such, is a big challenge

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

40.) A-F system is used in which of the following number systems?

- (A) Binary
- (B) Octal
- (C) Hexa - Decimal
- (D) Decimal

41.) Under Goal 4 of Millennium Development Goals, the reduction sought to be achieved in under-five child mortality rate between 1990-2015 was to the extent of

- (A) Half
- (B) Two-third
- (C) Three-fourth
- (D) One-third

42.) Match List I with List II

List I	List II
Emitted Pollutants	Environmental Impact
A. Carbon dioxide	I. Formation of acid rain
B. Carbon monoxide	II. Toxic and are carcinogenic
C. Nitrogen oxides	III. Toxic and can cause respiratory diseases
D. Benzene and hydrocarbons	IV. Contribution to global warming as a greenhouse gas

Choose the correct answer from the options given below:

- (A) A - IV, B - III, C - I, D - II
- (B) A - IV, B - II, C - I, D - III
- (C) A - IV, B - II, C - III, D - I
- (D) A - I, B - III, C - II, D - IV

43.) Identify the correct sequence of countries in decreasing order of their contribution to global carbon dioxide emissions:

- A. USA
- B. China
- C. Russia
- D. India
- E. Japan

Choose the correct answer from the options given below:

- (A) A, B, D, C, E
- (B) B, A, D, C, E
- (C) B, A, D, E, C
- (D) A, B, D, E, C

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

Assertion A: A windmill with proper design considerations can be made to operate at efficiencies in the range 60% to 65%

Reason R: The efficiency of the windmill depends on its design parameters

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

45.) From disaster mitigation measures given below, identify the measures which can be characterized as non-structural:

- A. Flood dykes
- B. Land-use zoning
- C. Raising of homes in flood-prone areas
- D. Insurance Programmes
- E. Reinforce tornado safe rooms

Choose the correct answer from the options given below:

- (A) B and D only
- (B) A, B and D only
- (C) B, D and E only
- (D) A, B, D and E only

46.) Which of the following areas of liberal education at the higher level in the feudal society of Europe were classified under quadrivium?

- A. Grammar
- B. Logic
- C. Arithmetic
- D. Astronomy
- E. Music

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

47.) National Programme for Technology Enhanced Learning (NPTEL) was initiated by the MHRD in 2003 to enhance the quality in:

- (A) Medical education
- (B) Agriculture education
- (C) Engineering education
- (D) Legal education

48.) The Sustainable Development Goals (SDGs) set in 2015 by the United Nations are intended to be achieved by

- (A) 2025
- (B) 2030
- (C) 2035
- (D) 2040

49.) Match List I with List II

List I	List II
Modes of supply of education services under GATS	Examples of these services in education
A. Mode 1 - Cross border supply	I. Professors, teachers and researchers working abroad on a temporary basis
B. Mode 2 - Consumption abroad	II. Language training companies, Local university and Satellite campuses
C. Mode 3 - Commercial presence	III. Distance education, Virtual education, Corporate training through ICT
D. Mode 4 - Movement of natural persons	IV. A student travels to another country to enrol in a course of study/degree programme

Choose the correct answer from the options given below:

- (A) A - IV, B - I, C - III, D - II
- (B) A - III, B - IV, C - II, D - I
- (C) A - II, B - III, C - I, D - IV
- (D) A - I, B - II, C - IV, D - III

50.) Ashtadhyayi was written by:

- (A) Chanakya
- (B) Jivaka
- (C) Katyayana
- (D) Panini