



CBRT - 2019 Question Paper Grid

Government of Goa

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Set Name 15092019_SESSION_II ▼

Subjects Assistant Professor for Research Development and Innovation for State Higher Education Council ▼

Display With Answer Key ▼

Assistant Professor for Research Development and Innovation for State Higher Education Council

Itemcode : **RD1061**
Q1 : The day after the day after tomorrow is four days before Monday. What day is it today?

- (a) Monday
- (b) Tuesday
- (c) Wednesday
- (d) Thursday

 Key: **A**
Itemcode : **RD1062**
Q2 : Complete the series 165, 195, 255, 285, 345, ?

- (a) 390
- (b) 420
- (c) 435
- (d) 375

 Key: **C**
Itemcode : **RD1063**
Q3 : If SUMMER is coded RUNNER, the code for WINTER is

- (a) SUITER
- (b) VIOUER
- (c) WALKER
- (d) SUFFER

 Key: **B**
Itemcode : **RD1064**
Q4 : Ramesh ranks 13th in the class of 33 students. There are 5 students below Suresh rankwise. How many students are there between Ramesh and Suresh ?

- (a) 12
- (b) 14
- (c) 15
- (d) 16

 Key: **B**
Itemcode : **RD1065**
Q5 : Raj has a jewel chest containing Rings, Pins and Ear-rings. The chest contains 26 pieces. Raj has 2 1/2 times as many rings as pins, and the number of pairs of earrings is 4 less than the number of rings. How many earrings does Raj have?

- (a) 10 Ear-rings
- (b) 12 Ear-rings
- (c) 9 Ear-rings
- (d) 6 Ear-rings

 Key: **B**
Itemcode : **RD1066**
Q6 : shobha's father was 38 years of age when she was born while her mother was 36 years old when her brother four years younger to her was born. What is the difference between the ages of her parents?

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

 Key: **A**
Itemcode : **RD1067**
Q7 : How many cases do you need if you have to pack 112 pairs of shoes into cases that each hold 28 shoes?

- (a) 10
- (b) 18
- (c) 8

(d) 12
Key: **C**

Itemcode : **RD1068**

Q8 : A photograph measuring 8.5 by 7.5 cm is to be enlarged. If the enlargement of the longer side is 13.6 cm, what is the length of the smaller side?

- (a) 12 cm
- (b) 13 cm
- (c) 10 cm
- (d) 11 cm

Key: **A**

Itemcode : **RD1069**

Q9 : Insert the missing number?

6	6	8
5	7	5
4	3	?
120	126	320

- (a) 7
- (b) 8
- (c) 6
- (d) 5

Key: **B**

Itemcode : **RD1070**

Q10 Scribble : Write : : Stammer : ?
:

- (a) Walk
- (b) Play
- (c) Dance
- (d) Speak

Key: **D**

Itemcode : **RD1051**

Q11 Which of the following is a non metal that remains liquid at room temperature?
:

- (a) Phosphorous
- (b) Bromine
- (c) Chlorine
- (d) Helium

Key: **B**

Itemcode : **RD1052**

Q12 Reading of a barometer going down is an indication of
:

- (a) snow
- (b) storm
- (c) intense heat
- (d) rainfall

Key: **D**

Itemcode : **RD1053**

Q13 Very small time intervals are accurately measured by
:

- (a) White dwarfs
- (b) Quartz clocks
- (c) Atomic clocks
- (d) Pulsars

Key: **C**

Itemcode : **RD1054**

Q14 One kilometre is equal to how many miles?
:

- (a) 0.84
- (b) 0.5
- (c) 1.6
- (d) 0.62

Key: **D**

Itemcode : **RD1055**

Q15 The pass located at the southern end of the Nilgiri Hills in south India is called

:

- (a) the Palghat gap
- (b) the Bhorghat pass
- (c) the Thalghat pass
- (d) the Bolan pass

Key: **A**Itemcode : **RD1056****Q16** The oldest oil field in India is the _____ field, in _____

:

- (a) Anleshwar, Gujarat
- (b) Bombay High, Maharashtra
- (c) Nawagam, Gujarat
- (d) Digboi, Assam

Key: **D**Itemcode : **RD1057****Q17** Which of the following groups of rivers have their source of origin in Tibet?

:

- (a) Brahmaputra, Ganges and Sutlej
- (b) Ganges, Sutlej and Yamuna
- (c) Brahmaputra, Indus and Sutlej
- (d) Chenab, Ravi and Sutlej

Key: **C**Itemcode : **RD1058****Q18** Which of the following crops needs maximum water per hectare?

:

- (a) Barley
- (b) Maize
- (c) Sugarcane
- (d) Wheat

Key: **C**Itemcode : **RD1059****Q19** The ratio of width of our National flag to its length is

:

- (a) 3:5
- (b) 2:3
- (c) 2:4
- (d) 3:4

Key: **B**Itemcode : **RD1060****Q20** 'Natya-Shastra' the main source of India's classical dances was written by

:

- (a) Nara Muni
- (b) Bharat Muni
- (c) Abhinav Gupt
- (d) Tandu Muni

Key: **B**Passage:

Read the passage below and answer the following questions:

The University Grants Commission's directive requiring college and university lecturers to spend a minimum of 22 hours a week in direct teaching is the product of budgetary cutbacks rather than pedagogic wisdom. It may seem odd, at first blush, that teachers should protest about teaching a mere 22 hours. However, if one considers the amount of time academics require to prepare lectures of good quality as well as the time they need to spend doing research - it is clear that most conscientious teachers work more than 40 hours a week. In university systems around the world, lecturers rarely spend more than 12 to 15 hours in direct teaching activities a week. The average college lecturer in India does not have any office space. If computers are available, Internet connectivity is unlikely. Libraries are poorly stocked. Now the UGC says universities must implement a complete freeze on all permanent recruitment, abolish all posts which have been vacant for more than a year, and cut staff strength by 10 percent. And it is in order to ensure that these cutbacks do not affect the quantum of teaching that existing lecturers are being asked to work longer. Obviously, the quality of teaching - and academic work in general - will decline. While it is true that some college teachers do not take their classes regularly, the UGC and the institutions concerned must find a proper way to hold them accountable. An absentee teacher will continue to play truant even if the number of hours he is required to teach goes up.

All of us are well aware of the unsound state that the Indian higher education system is in today. Thanks to years of sustained financial neglect, most Indian universities and colleges do no research worth the name. Even as the number of students entering colleges has increased dramatically, public investment in higher education has actually declined in relative terms. Between 1995 and 2007, when public expenditure on higher education as a percentage of outlays on all levels of education grew by more than 60 per cent in Malaysia and 20 per cent in Thailand, India showed a decline of more than 10 per cent. Throughout the world, the number of teachers in higher education per million population grew by more than 10 per cent in the

same period; in India, it fell by one per cent. Instead of transferring the burden of government apathy on to the backs of the teachers, the UGC should insist that the needs of the country's university system are adequately catered for.

Itemcode : RD1071

Q21 Why does the UGC want to increase the direct teaching hours of university teachers?

:

- (a) UGC feels that the duration of contact between teacher and the taught should be more.
- (b) UGC wants teachers to spend more time in their departments.
- (c) UGC wants teachers to devote some time to improve university administration.
- (d) UGC does not have money to appoint additional teachers.

Key: **D**

Itemcode : RD1072

Q22 Which of the following is the reason for the sorry state of affairs of the Indian Universities as mentioned in the passage?

:

- (a) The poor quality of teachers.
- (b) Involvement of teachers in extracurricular activities.
- (c) Politics within and outside the departments.
- (d) Not getting enough financial assistance.

Key: **D**

Itemcode : RD1073

Q23 Besides direct teaching, University teachers spend considerable time in/on _____.

:

- (a) Administrative activities such as admissions.
- (b) Supervising examinations and correction of answer papers.
- (c) Carrying out research in the area of their interest.
- (d) Maintaining research equipment and libraries.

Key: **C**

Itemcode : RD1074

Q24 Which of the following statements is NOT TRUE in the context of the passage?

:

- (a) UGC wants teachers to spend minimum 40 hours in a week in teaching.
- (b) Some college teachers do not engage their classes regularly.
- (c) The average college teacher in India does not have any office space.
- (d) UGC wants universities to abolish all posts which have been vacant for more than a year.

Key: **A**

Itemcode : RD1075

Q25 Which of the following statements is NOT TRUE in the context of the passage?

:

- (a) Indian universities are financially neglected.
- (b) All over the world, the university lecturers hardly spend more than 12 to 15 hours a week in direct teaching.
- (c) Indian universities are asked to reduce staff strength by 10%.
- (d) Public investment in higher education has increased in India.

Key: **D**

Itemcode : RD1001

Q26 The full form of ANCOVA is _____

:

- (a) Analysis of Covariance
- (b) Analysis of Coefficient
- (c) Analysis of Covariate
- (d) Analysing Covariate

Key: **A**

Itemcode : RD1002

Q27 ARPIT is a major and unique initiative of online professional development of higher education faculty using the MOOCs platform SWAYAM. ARPIT is an acronym for _____

:

- (a) Annual Refresher Programme in Tutoring
- (b) Annual Reminder Programme in Teaching
- (c) Actual Refresher Programme in Teaching
- (d) Annual Refresher Programme in Teaching

Key: **D**

Itemcode : RD1003

Q28 The mode of the following set of data is _____

:

27, 21, 28, 21, 28, 21, 29, 36, 22, 21

- (a) 28
- (b) 21
- (c) 27
- (d) 36

Key: **B**

Itemcode : RD1004

Q29 The type of non-probability sampling in which the research participants refer other members for the study is called : _____

- (a) Purposive Sampling
- (b) Convenience Sampling
- (c) Snowball Sampling
- (d) Quota Sampling

Key: **C**

Itemcode : **RD1005**

Q30 LEAP is a three weeks flagship Leadership Development training programme for second level academic functionaries in public funded higher education institutions launched by Ministry of Human Resource and Development, Government of India. LEAP stands for _____

- (a) Leadership for Academicians Programme
- (b) Leadership for Educationists and Academicians Programme
- (c) Leaders and Academicians Programme
- (d) Leaders, Educationists and Academicians Programme

Key: **A**

Itemcode : **RD1006**

Q31 NIRF stands for _____

- (a) National Institute for Ranking Framework
- (b) National Institutional Ranking Framework
- (c) National Institute for Rank and Framework
- (d) National Institutional Rank and Frame

Key: **B**

Itemcode : **RD1007**

Q32 Content analysis uses which of the below methods?

- (a) Counting
- (b) Recording
- (c) Classifying
- (d) All of these

Key: **D**

Itemcode : **RD1008**

Q33 The levels of measurement scales are _____

- (a) Nominal, Ordinal, Interval, Ratio
- (b) Notional, Ordinal, Interspersed, Ratio
- (c) Nominal, Ordinary, Interval, Rational
- (d) Nominal, Ordinal, Intermission, Ratio

Key: **A**

Itemcode : **RD1009**

Q34 The difference between the mean of a researcher's sample and the mean of the population of the sample is known as the _____

- (a) Confidence interval
- (b) Standard deviation
- (c) Sampling error
- (d) Significance level

Key: **C**

Itemcode : **RD1010**

Q35 The purpose of research is _____

- (a) To produce work of publishable quality.
- (b) To extend the conceptual understanding of a topic.
- (c) That the empirical work should be testing a theory.
- (d) Primarily to get more data.

Key: **B**

Itemcode : **RD1011**

Q36 What sort of research is coding appropriate for?

- (a) Quantitative
- (b) Quantitative and qualitative
- (c) Qualitative
- (d) None of these

Key: **B**

Itemcode : **RD1012**

Q37 In which one of the below circumstances could pre-coding be used?

- (a) Observational studies.

- (b) Researcher administered questionnaires.
 (c) Self-completion questionnaires.
 (d) All of these

Key: **D**

Itemcode : **RD1013**

Q38 A study that explains what happened to a measured variable after-the-fact is called _____
 :

- (a) Ex-post facto
 (b) Statistical
 (c) Causal
 (d) Exploratory

Key: **A**

Itemcode : **RD1014**

Q39 A study that involves manipulation of one or more variables to determine the effect on another variable is called _____
 :

- (a) Exploratory
 (b) Experimental
 (c) Causal
 (d) Statistical

Key: **B**

Itemcode : **RD1015**

Q40 A reasoning where we start with certain particular statements and conclude with a universal statement is called _____
 :

- (a) Deductive Reasoning
 (b) Inductive Reasoning
 (c) Abnormal Reasoning
 (d) Transcendental Reasoning

Key: **B**

Itemcode : **RD1016**

Q41 Mean, Median and Mode are _____
 :

- (a) Measures of deviation
 (b) Ways of sampling
 (c) Measures of control tendency
 (d) None of the above

Key: **D**

Itemcode : **RD1017**

Q42 A deductive theory is one that _____
 :

- (a) Allows theory to emerge out of the data
 (b) Involves testing an explicitly defined hypothesis
 (c) Allows for findings to feed back into the stock of knowledge
 (d) Uses qualitative methods whenever possible

Key: **B**

Itemcode : **RD1018**

Q43 If a study is "reliable", this means that _____
 :

- (a) It was conducted by a reputable researcher who can be trusted
 (b) The measures devised for concepts are stable on different occasions
 (c) The findings can be generalized to other social settings
 (d) The methods are stated clearly enough for the research to be replicated

Key: **B**

Itemcode : **RD1019**

Q44 Assigning numerals or other symbols to the categories or response is called _____
 :

- (a) Editing
 (b) Coding
 (c) Transcription
 (d) Tabulating

Key: **B**

Itemcode : **RD1020**

Q45 Research related to abstract ideas or concept is called _____
 :

- (a) Empirical research
 (b) Quantitative research
 (c) Qualitative research
 (d) Conceptual research

Key: **D**

Itemcode : **RD1021**

Q46 Bibliography means _____
:

- (a) Foot Note
- (b) Quotations
- (c) Biography
- (d) List of books referred

Key: **D**

Itemcode : **RD1022**

Q47 ICSSR stands for _____
:

- (a) Indian Council of Survey Research
- (b) Indian Council of Strategic Research
- (c) Indian Council of Social Science Research
- (d) International Council of Social Science research

Key: **C**

Itemcode : **RD1023**

Q48 Basing conclusions without any bias and value judgment is _____
:

- (a) Objectivity
- (b) Specificity
- (c) Values
- (d) Facts

Key: **A**

Itemcode : **RD1024**

Q49 The aggregate of all the units pertaining to a study is called _____
:

- (a) Sample
- (b) Population
- (c) Frame
- (d) Unit

Key: **B**

Itemcode : **RD1025**

Q50 An example of probability sampling is _____
:

- (a) Quota Sampling
- (b) Snowball Sampling
- (c) Purposive Sampling
- (d) Lottery Method

Key: **D**

Itemcode : **RD1026**

Q51 A blue print of research work is called _____
:

- (a) Research Problem
- (b) Research Design
- (c) Research Tools
- (d) Research Methods

Key: **B**

Itemcode : **RD1027**

Q52 Population Census is an example of _____
:

- (a) Survey Research
- (b) Empirical Research
- (c) Clinical Research
- (d) Diagnostic Research

Key: **A**

Itemcode : **RD1028**

Q53 In testing a hypothesis the common error is _____
:

- (a) Type I
- (b) Type II
- (c) Type I and II
- (d) None of the above

Key: **C**

Itemcode : **RD1029**

Q54 A positive correlation occurs when _____
:

- (a) Two variables remain constant
 (b) Two variables move in the same direction
 (c) Two variables move in opposite directions
 (d) One variable goes up and the other goes down
 Key: **B**

Itemcode : **RD1030**

Q55 The measure of the extent to which responses vary from the mean is called _____
 :

- (a) Mode
 (b) Normal Distribution
 (c) Standard Deviation
 (d) Variance

Key: **C**

Itemcode : **RD1031**

Q56 A researcher prepared a report based on the interviews of 25 people. Under which category, this research can be placed?
 :

- (a) Quantitative
 (b) Qualitative
 (c) Historical
 (d) Scientific

Key: **B**

Itemcode : **RD1032**

Q57 Action research means _____
 :

- (a) A longitudinal research
 (b) An applied research
 (c) A research initiated to solve an immediate problem
 (d) A research with socio-economic objective

Key: **C**

Itemcode : **RD1033**

Q58 Research is _____
 :

- (a) Searching again and again
 (b) Finding solution to any problem
 (c) Working in a scientific way to search for truth of any problem
 (d) None of the above

Key: **C**

Itemcode : **RD1034**

Q59 Which of the following variable is manipulated by the researcher?
 :

- (a) Independent variable
 (b) Dependent variable
 (c) Continuous variable
 (d) Discrete variables

Key: **A**

Itemcode : **RD1035**

Q60 The degree of relationship between a bivariate data is called _____
 :

- (a) Regression
 (b) Correlation
 (c) Data analysis
 (d) None of these

Key: **B**

Itemcode : **RD1036**

Q61 A researcher commits Type II error when she/he :
 :

- (a) Accepts null hypothesis when it is true.
 (b) Rejects null hypothesis when it is true.
 (c) Accepts null hypothesis when it is false.
 (d) Rejects null hypothesis when it is false.

Key: **C**

Itemcode : **RD1037**

Q62 In a study, students of an elementary school were taken up to explore the effect of malnutrition on their wellness life style. In terms of research design, which of the following will be the most appropriate for such a situation?

- (a) Field Study Design
 (b) Laboratory Experiment Design
 (c) Ex Post Facto Research Design

(d) Descriptive Design
Key: **C**

Itemcode : **RD1038**

Q63 Which test measures the specific abilities of students which can be made the basis for predicting their future performance?

- (a) Achievement test
- (b) Intelligence Test
- (c) Aptitude test
- (d) Attitude Scale

Key: **C**

Itemcode : **RD1039**

Q64 On the basis of an achievement test, the teacher rated Ram, Shyam & Dhyan as 1st, 2nd & 3rd respectively. This is an example of

- (a) Ratio Scale
- (b) Ordinal Scale
- (c) Internal Scale
- (d) Nominal Scale

Key: **B**

Itemcode : **RD1040**

Q65 Which sampling technique will be most appropriate to draw a representative sample of heterogeneous population?

- (a) Stratified Random
- (b) Quota
- (c) Purposive
- (d) Incidental

Key: **A**

Itemcode : **RD1041**

Q66 Which of the following is NOT a measure of dispersion ?

- (a) Range
- (b) Mode
- (c) Mean Deviation
- (d) Standard Deviation

Key: **B**

Itemcode : **RD1042**

Q67 Which of the following is a non-parametric test?

- (a) Analysis of Covariance
- (b) Analysis of Variance
- (c) Median Test
- (d) Critical Ratio

Key: **C**

Itemcode : **RD1043**

Q68 Authenticity of a research finding is its:

- (a) Originality
- (b) Validity
- (c) Objectivity
- (d) All of the above

Key: **D**

Itemcode : **RD1044**

Q69 A researcher is interested in studying the flood victims. Which one of the following is a suitable sample selection method?

- (a) Random Sampling
- (b) Stratified Sampling
- (c) Systematic Sampling
- (d) Purposive Sampling

Key: **D**

Itemcode : **RD1045**

Q70 The Web 2.0 technologies which help in acquiring multiple knowledge:

- (a) You-Tube
- (b) Face Book
- (c) Wikipedia
- (d) All the above

Key: **D**

Itemcode : **RD1046**

Q71 Equality of opportunities in education implies that each student _____

:

- (a) Passes examination with first division
- (b) Gets equal number of books and stationary
- (c) Gets facilities according to his abilities and interest.
- (d) Gets facilities according to his potential and level in the society.

Key: **C**

Itemcode : **RD1047**

Q72 Classification of quantitative data into categories is not needed when _____

:

- (a) The group is highly homogenous
- (b) Tool is faulty and defective
- (c) Experimental studies are conducted.
- (d) None of these

Key: **A**

Itemcode : **RD1048**

Q73 Which of the following provide qualitative data _____

:

- (a) Open end questionnaire
- (b) Non structured interview
- (c) Observation
- (d) All of these.

Key: **D**

Itemcode : **RD1049**

Q74 Qualitative data are preferred when _____

:

- (a) A.A researcher wants to study a problem more comprehensively
- (b) B.A researcher wants to study the attitudes and values of the population
- (c) It is not possible to collect quantitative data.
- (d) All of these.

Key: **D**

Itemcode : **RD1050**

Q75 Which of the following statistical technique is used in opinion surveys for analysis of data?

:

- (a) t-test
- (b) R test
- (c) Chi Square test
- (d) None of these

Key: **C**