Assignment 1

The due date for submitting this assignment has passed.

Due on 2021-02-24, 23:59 IST.

Assignment submitted on 2021-02-24, 15:05 IST

More than one option may be correct. Partial marks will be awarded only if some of the correct options are selected and none of the incorrect options are selected.		
Please see the National Education Policy (NEP) 2020 document at: https://www.education.gov.in/sites/upload_files/mhrd/files/NEP_Final_English_0.pdf Answer the questions below based on this document.		
1 point The document has been put together and released by:		
The Ministry presently known as the Ministry of Education The Ministry previously known as the Ministry of Human Resource Development Ministry of Colleges and Schools Ministry of Skill Development		
Yes, the answer is correct. Score: 1 Accepted Answers: The Ministry presently known as the Ministry of Education The Ministry previously known as the Ministry of Human Resource Development		
1 point The document has sections the focus on:		
School education College education Adult education Early Childhood education Yes, the answer is correct. Score: 1 Accepted Answers: School education College education Adult education Early Childhood education Early Childhood education		
1 point ECCE includes		
Play –based learning Early training for exams Inquiry based learning Visual arts		

Yes, the answer is correct. Score: 1	
Play Inqu	epted Answers: r – based learning iry based learning al arts
1 point The fraction of students in elementary school who can read, write, add and subtract is	
	All
	None
	Large
	Small
No, t	the answer is incorrect. re: 0
Accepted Answers: Small	
1 point The goals of the Schooling system must be:	
	Decreasing dropout rates
	To see that students are enrolled in and are attending school
	Remove poor performing students from schools so that the pass percentage is good
	Provide effective infrastructure in schools
Partially Correct. Score: 0.66	
Accepted Answers: Decreasing dropout rates To see that students are enrolled in and are attending school Provide effective infrastructure in schools	
1 point Students in schools will have the opportunity to examine:	
	Doing what is right
	Knowledge of India
	Constitutional values
	The original stories of the Panchatantra
Partially Correct. Score: 0.5	
Accepted Answers: Doing what is right Knowledge of India Constitutional values The original stories of the Panchatantra	
1 point Which of the following statements is/are true	
	India has a long tradition of holistic learning
	The idea that all branches of human endeavour should be considered as Arts, has an Indian origin

	Knowledge of "many arts" is the kind of education that will be required in the 21st century	
Ш	Multidisciplinary education should be avoided at the undergraduate level	
No, Sco	the answer is incorrect. re: 0	
India The	epted Answers: a has a long tradition of holistic learning idea that all branches of human endeavour should be considered as Arts, has an Indian origin wledge of "many arts" is the kind of education that will be required in the 21st century	
1 point Undergraduate education that includes Humanities and Arts along with STEM results in		
	Ineffective usage of time	
	Lack of concentration	
	Decrease in focus on studies due to increased distractions	
	Result in increased creativity and innovation	
Yes,	the answer is correct. re: 1	
	epted Answers: ult in increased creativity and innovation	
1 point Adult education should include		
	Numeracy	
	Financial literacy	
	Vocational skills	
	Use of different teaching learning methods than those used for children	
Partially Correct. Score: 0.75		
Accepted Answers: Numeracy Financial literacy Vocational skills Use of different teaching learning methods than those used for children		
1 pc	e context of online education:	
	It is important to increase equity using the digital India campaign	
	It is important to make computing devices more affordable	
	There are challenges in online exams such as limitations on the types of questions	
	There is a need to create an interoperable, evolvable, public digital infrastructure	
	ially Correct.	
	epted Answers:	
It is important to increase equity using the digital India campaign		
It is important to make computing devices more affordable There are challenges in online exams such as limitations on the types of questions There is a need to create an interoperable, evolvable, public digital infrastructure		

Assignment submitted on 2021-03-02, 09:04 IST

More than one option may be right. Partial marks are awarded if only some of the correct options are selected. No marks awarded if even one of the wrong options is selected.

1 point Which of the following is a recommended criterion to pick a reference article for inclusion in a publication?
The article is authored by likely reviewers
The article is a prior work directly relating to the topic
The article is authored by someone well known in that topic
The article appeared in a well known journal
No, the answer is incorrect. Score: 0
Accepted Answers: The article is a prior work directly relating to the topic
1 point Which of the following indices is considered as a measure of the impact of a particular article in its area of specialization?
Number of likes
Number of views
Number of downloads
Number of articles referring to it
No, the answer is incorrect. Score: 0
Accepted Answers: Number of articles referring to it
1 point Which of the following bibliographic details is necessary to retrieve all other details of a digitally published article?
ISSN
ISBN
DOI
URL
No, the answer is incorrect. Score: 0
Accepted Answers: DOI
1 point Literature review is an activity that typically needs to be carried out
Only at the start of the research
Only at the end of the research
Only while publishing a paper
Throughout the research process

No, the answer is incorrect. Score: 0		
Accepted Answers: Throughout the research process		
1 point Compared to peer reviewed journals, websites are		
	More likely to be reliable	
	Equally reliable	
	Less likely to be reliable	
	Completely incorrect	
Yes, Scor	the answer is correct. re: 1	
	epted Answers: s likely to be reliable	
1 pc	bint ch of the bibliographic fields are generally allowed for use without subscription by publishers?	
	Title, Authors, Volume, Issue, Page number and DOI	
	Title, Volume, Issue, Page number, Abstract and Full text	
	Title, Authors, Issue, Page number, Abstract and References	
	Title, Authors, Volume, Issue, Page number and Abstract	
No, Scor	the answer is incorrect. re: 0	
	epted Answers: , Authors, Volume, Issue, Page number and DOI	
1 pc	ch of the following is the best way to refer to the internet location of a published article?	
	URL of the website of publisher	
	URL of the author of the article	
	URL of the journal	
	DOI link of the article	
No, Scor	the answer is incorrect. re: 0	
	epted Answers: link of the article	
1 pc Which artic	ch of the following is a sufficient piece of information to retrieve rest of the bibliographic details of an	
	DOI link	
	Author and Journal	
	Journal, Volume and Year	
	Author and Year	
No,	the answer is incorrect. re: 0	
Acce	epted Answers:	

DOI link		
1 point Consider you are authoring a scientific document. One of the articles you are referring to has been retracted just before your article went to press and is thus not available any longer. You have come to know of it before uploading the final version of the manuscript for publication. What is the most recommended way to address the missing reference?		
Add a note in the reference that it has been retracted		
Remove the retracted reference and modify the text and citations accordingly		
Ignore the retraction and leave it to publisher to address		
Replace the reference with another article of same author		
No, the answer is incorrect. Score: 0		
Accepted Answers: Remove the retracted reference and modify the text and citations accordingly		
1 point You have received an invitation to submit an article for publication in a journal. Which of the following options best describes the possibility that the journal is fake.		
The journal has page charges for the articles it publishes		
The journal does not have an editorial board or review process		
The name of the journal is similar to of another reputed journal in the same domain		
The articles of the journal are available for free on internet		
No, the answer is incorrect. Score: 0		
Accepted Answers: The journal does not have an editorial board or review process		
Assignment 3		
The due date for submitting this assignment has passed. Due on 2021-03-10, 23:59 IST		
Assignment submitted on 2021-03-10, 20:05 IST		
More than one option may be correct. Partial marks will be awarded only if some of the correct options are selected and none of the incorrect options are selected.		
1 pointWhich of the following is/ are example/s of exploratory data analysis		
Testing that the average salary in an age group is Soso (specified value)		
Searching for trends or outliers in a data set		
Histogram analysis of runs scored by a player in cricket		
Analyzing the relationship between variables using linear regression.		

No, the answer is incorrect. Score: 0			
Accepted Answers:			
Searching for trends or outliers in a data set Histogram analysis of runs scored by a player in cricket			
Analyzing the relationship between variables using linear regression.			
1 point Identify the correct statement/s below			
Any deterministic signal can be accurately predicted given sufficient history. A stochastic signal always keeps randomly alternating between positive and negative values			
Measurements of steps by the best smart phone of an active individual are deterministic. Probability that a batsman, in cricket, will get out on any ball is 0.5.			
No, the answer is incorrect. Score: 0			
Accepted Answers: Any deterministic signal can be accurately predicted given sufficient history.			
1 point Which of the following functions is / are linear in time tt?			
A sinusoidal signal $y(t)=A\sin(\omega_0 t)y(t)=A\sin(\frac{1}{2}\omega_0^2)(\omega_0 t)$			
The signal $x(t)=texp(c0t)+\beta x(t)=texp(c0t)+\beta$ when $c0=0c0=0$.			
Distance travelled by a car travelling with uniform velocity between $t=t_1t=t_1$ and $t=t_2t=t_2$.			
The instantaneous frequency of a linear chirp $x(t) = \cos(2\pi(\alpha t + f_0)t)x(t) =$			
Partially Correct. Score: 0.5			
Accepted Answers: Distance travelled by a car travelling with uniform velocity between t=t1t=t1and t=t2t=t2. The instantaneous frequency of a linear chirp $x(t)=cos(2\pi(\alpha t+f0)t)x(t)=cos(6\pi(\alpha t+f0)t)$, where α , for are positive constants.			
1 point An estimator is said to be most efficient when			
The parameters can be estimated accurately with the smallest sample size.			
☐ It estimates parameters with the lowest variability / highest precision.			
It is able to handle at least 10% of missing data.			
Among all the estimators (of a parameter) it estimates with lowest standard error.			
No, the answer is incorrect. Score: 0			
Accepted Answers: It estimates parameters with the lowest variability / highest precision.			

Among all the estimators (of a parameter) it estimates with lowest standard error. 1 point Identify the correct statement(s) among the following. Bias in an estimate implies it is different from the true value by exactly a constant. A statistic and estimator are both mathematical functions of the observed data. Precision and accuracy of an estimator are very closely related to each other. Two variables with identical correlation in two different data sets have the same linear model. No, the answer is incorrect. Score: 0 Accepted Answers: A statistic and estimator are both mathematical functions of the observed data. Identify the correct statement among the following: Data visualization is useful because it gives us an idea of any anomalies and trends in the data. Robust methods of estimation are meant to handle outliers n the data set. Errors in estimates of the order 10⁻³ can be always treated as insignificant. Input excitation can greatly influence the ability to estimate parameters uniquely. Partially Correct. Score: 0.67 Accepted Answers: Data visualization is useful because it gives us an idea of any anomalies and trends in the Robust methods of estimation are meant to handle outliers n the data set. Input excitation can greatly influence the ability to estimate parameters uniquely. 1 point Which of the following is true concerning a parameter estimate? It can never equal to the true value even if the data is identical to the ensemble. When averaged across five hundred data sets, the error in estimate is five hundred times lower than from a single data set. Increase in sample size will always increase its value. The most efficient estimate is not necessarily the most accurate. No, the answer is incorrect. Score: 0 Accepted Answers: The most efficient estimate is not necessarily the most accurate. 1 point Which of the following is true w.r.t. in data-driven modelling? Overfitting generally implies that more time has been spent in fitting the model.

Models that are underfit are less complex than those that are overfit.

Overfit models generally perform poorly on fresh data sets.	
Overfitting occurs whenever the sample size used is more than necessary to obtain a good estimate.	
No, the answer is incorrect. Score: 0	
Accepted Answers: Models that are underfit are less complex than those that are overfit. Overfit models generally perform poorly on fresh data sets.	
1 point While working with acids in laboratories:	
Acid storage must be done with secondary containment	
Acids and bases must be separated	
Acid wastes must be washed down the sink	
Acid containing bottles must be clearly labelled	
Yes, the answer is correct. Score: 1	
Accepted Answers: Acid storage must be done with secondary containment Acids and bases must be separated Acid containing bottles must be clearly labelled	
1 point Gas bottles in laboratories should be:	
Transported by rolling on the floor	
Secured with a chain that is high enough to prevent toppling	
Stored with regulators removed	
stored with the regulators fixed on the bottles	
No, the answer is incorrect.	
Score: 0 Accepted Answers: Secured with a chain that is high enough to prevent toppling Stored with regulators removed	
Assignment 1	

Assignment 4

The due date for submitting this assignment has passed.

Due on 2021-03-17, 23:59 IST.

Assignment submitted on 2021-03-16, 14:15 IST

More than one option may be right. Partial marks are awarded if only some of the correct options are selected and none of the incorrect options are selected.

1 point An outline of a talk helps the audience
Understand your educational background
Note the main points you will be covering in the talk
Decide the sections of the talk they are interested in
Understand the importance of your professional accomplishments
Yes, the answer is correct. Score: 1
Accepted Answers: Note the main points you will be covering in the talk Decide the sections of the talk they are interested in
1 point The features of a journal paper are:
It changes based on the audience
It is a one-time activity with respect to a given set of data
It is peer reviewed
Generally interactive with the reader
Yes, the answer is correct. Score: 1
Accepted Answers: It is a one-time activity with respect to a given set of data It is peer reviewed
1 point The features of a Technical presentation are:
It changes based on the audience
It is a one-time activity with respect to a given set of data
It is peer reviewed
Generally interactive with the audience
Yes, the answer is correct. Score: 1
Accepted Answers: It changes based on the audience Generally interactive with the audience
1 point Knowing who your audience is, is important in a technical presentation because:
Your audience may have popular people
You will be able to gauge their background knowledge
You can tailor your talk accordingly
You can understand why they are watching your talk
Yes, the answer is correct. Score: 1
Accepted Answers: You will be able to gauge their background knowledge You can tailor your talk accordingly You can understand why they are watching your talk

1 point Illustration and data in a presentation
Must complete fill the slide from end to end
Must be presented with sufficient open spaces in between
Must typically help the audience focus on a specific idea in each slide
Must always be in colour
Yes, the answer is correct. Score: 1
Accepted Answers: Must be presented with sufficient open spaces in between Must typically help the audience focus on a specific idea in each slide
1 point Steps involved in publishing a journal paper typically include:
Writing the paper as per journal constraints
Submitting the paper to a journal which will then send it to reviewers for their comments
Responding to the comments of the reviewers
Publication of the paper as long as it less than 7 pages long
Yes, the answer is correct. Score: 1
Accepted Answers: Writing the paper as per journal constraints Submitting the paper to a journal which will then send it to reviewers for their comments Responding to the comments of the reviewers
1 point Any given journal, will typically accept for review:
Papers in any area of research
Papers in any area of research as long as it is new
Papers only from a relatively narrow area of research
Papers that have been peer reviewed and published in other journals since this will help save time.
No, the answer is incorrect. Score: 0
Accepted Answers: Papers only from a relatively narrow area of research
1 point A technical paper and a science fiction novel:
Have the same style of presentation
Have very different styles of presentation
Both aim to surprise the reader in the end
Both aim to make every reader read till the end in a thrilling manner
Yes, the answer is correct. Score: 1
Accepted Answers: Have very different styles of presentation
1 point

Most students typically find their initial technical papers difficult to write because:		
They are accustomed to poor examples of technical writing		
They have high expectations of the first draft		
They often do not understand why they are being asked to make specific changes to their document		
They do not understand their work		
Yes, the answer is correct. Score: 1		
Accepted Answers: They are accustomed to poor examples of technical writing They have high expectations of the first draft They often do not understand why they are being asked to make specific changes to their document		
1 point The purpose of technical writing includes		
Informing the reader		
Persuade the reader to a certain point of view		
To convey the ideas efficiently		
Being sarcastic at different places in the technical document		
Yes, the answer is correct. Score: 1		
Accepted Answers: Informing the reader Persuade the reader to a certain point of view To convey the ideas efficiently		
Assignment 5		
The due date for submitting this assignment has passed. Due on 2021-03-24, 23:59 IST.		
Assignment submitted on 2021-03-24, 21:37 IST		
More than one option may be right. Partial marks are awarded if only some of the correct options are selected and none of the wrong options are selected.		
1 point A creative person:		
Accurately repeats work done by others		
Will likely find a new approach to solve a problem that others may not have considered		
Usually does not like to conform to pre-existing notions of what is possible		
Can be in almost any field		
Yes, the answer is correct. Score: 1		
Accepted Answers: Will likely find a new approach to solve a problem that others may not have considered Usually does not like to conform to pre-existing notions of what is possible Can be in almost any field		

1 point According to the Nobel Laureate, Herbert Simon, it takes:		
	0,000 hours of effort to be an expert in an area Approximately 4-5 years of working 8 hours a day in an area, to become an expert in the area	
	A Bachelor's degree, to become an expert in an area	
	Regular reading of newspapers to become an expert in a scientific area	
Yes, to	he answer is correct. :: 1	
Accepted Answers: 10,000 hours of effort to be an expert in an area Approximately 4-5 years of working 8 hours a day in an area, to become an expert in the area		
1 poir Accor	nt ding to Edward de Bono, the most complex activity is:	
	Feaching Reading	
	To simplify	
L Т	To complicate things further	
No, the answer is incorrect. Score: 0		
Accep To sin	oted Answers: mplify	
1 point Traits of a creative Engineer include		
	High motivation	
	Low self esteem	
S	Self Confidence	
L k	Knowledge of fundamentals	
Yes, to Score	he answer is correct. :: 1	
High r Self C	oted Answers: motivation Confidence dedge of fundamentals	
1 poir With r	nt respect to being creative in research	
	Young researchers are generally more creative since they have less prior baggage of work to confine selves to	
Field	Researchers who have spent 20 years in a field are generally less creative due to familiarity with the	
	gnorance of basic education enhances creativity in formal research	
Field	Researchers who have spent 20 years in a field are generally more creative due to familiarity with the	
Yes, to Score	he answer is correct. : 1	
Accen	oted Answers:	

ther	ing researchers are generally more creative since they have less prior baggage of work to confine inselves to Inselves to searchers who have spent 20 years in a field are generally less creative due to familiarity with the field
1 pc	ording to flow theory, a person performs best when:
	Challenge is much lower than the skill
_	Challenge is equal to the skill
	Challenge is much higher than the skill
	Challenge is unrelated to the skill
Sco	, the answer is correct. re: 1
	epted Answers: Illenge is equal to the skill
1 po Som	pint ne examples of creativity include
	Taking a problem/nuisance and converting it into a useful product
its p	Taking a poorly performing product and converting it into a new product line that takes advantage of our performance to do something not possible earlier
	Products that deviate from conventional wisdom
	Copying products that already exist, since the market for such products is established
	rially Correct. re: 0.66
Tak Tak poo	epted Answers: ing a problem/nuisance and converting it into a useful product ing a poorly performing product and converting it into a new product line that takes advantage of its r performance to do something not possible earlier ducts that deviate from conventional wisdom
1 pc Whi	pint le publishing a paper it is
	Important to be sure that the experiments were conducted correctly
	Important to ensure that references are properly cited
	Important to ensure that only people involved in the research work are acknowledged as authors
-	Important to have an agreement with a colleague to include his/her name in your publications, and r name in their publications, even if not directly involved in the work, so that the number of publications ease for both of you
	, the answer is correct. re: 1
Imp Imp	epted Answers: ortant to be sure that the experiments were conducted correctly ortant to ensure that references are properly cited ortant to ensure that only people involved in the research work are acknowledged as authors
1 po Une	pint thical behaviour in scientific research includes:
	Copying from other papers
	Directly changing the data if it is not as expected
	Listing all the authors while writing a paper

Accusing other researchers so that you become prominent
Partially Correct. Score: 0.66
Accepted Answers: Copying from other papers Directly changing the data if it is not as expected Accusing other researchers so that you become prominent
1 point Some of the reasons for researchers adopting unethical practices include
Pressure to become famous
Intention to have a quick career growth
Pressure to get funding
The need to teach well
Partially Correct. Score: 0.67
Accepted Answers: Pressure to become famous
Intention to have a quick career growth Pressure to get funding
Assignment 6 The due date for submitting this assignment has passed.
The dae date for submitting this assignment has passed.
Due on 2021-03-31, 23:59 IST.
Due on 2021-03-31, 23:59 IST. Assignment submitted on 2021-03-31, 21:12 IST
Assignment submitted on 2021-03-31, 21:12 IST More than one option may be right. Partial marks are awarded if only some of the correct options are
Assignment submitted on 2021-03-31, 21:12 IST More than one option may be right. Partial marks are awarded if only some of the correct options are selected and none of the wrong options are selected 1 point Which of the following is true? Statement 1: A patent is protected for 20 years from the date of application.
Assignment submitted on 2021-03-31, 21:12 IST More than one option may be right. Partial marks are awarded if only some of the correct options are selected and none of the wrong options are selected 1 point Which of the following is true? Statement 1: A patent is protected for 20 years from the date of application. Statement 2: Infringement means violation of an intellectual property right.
Assignment submitted on 2021-03-31, 21:12 IST More than one option may be right. Partial marks are awarded if only some of the correct options are selected and none of the wrong options are selected 1 point Which of the following is true? Statement 1: A patent is protected for 20 years from the date of application. Statement 2: Infringement means violation of an intellectual property right.
Assignment submitted on 2021-03-31, 21:12 IST More than one option may be right. Partial marks are awarded if only some of the correct options are selected and none of the wrong options are selected 1 point Which of the following is true? Statement 1: A patent is protected for 20 years from the date of application. Statement 2: Infringement means violation of an intellectual property right. Statement 1 is true, Statement 2 is false. Statement 1 is false, Statement 2 is true.
Assignment submitted on 2021-03-31, 21:12 IST More than one option may be right. Partial marks are awarded if only some of the correct options are selected and none of the wrong options are selected 1 point Which of the following is true? Statement 1: A patent is protected for 20 years from the date of application. Statement 2: Infringement means violation of an intellectual property right. Statement 1 is true, Statement 2 is false. Statement 1 is false, Statement 2 is true. Both Statement 1 and Statement 2 are true.
Assignment submitted on 2021-03-31, 21:12 IST More than one option may be right. Partial marks are awarded if only some of the correct options are selected and none of the wrong options are selected 1 point Which of the following is true? Statement 1: A patent is protected for 20 years from the date of application. Statement 2: Infringement means violation of an intellectual property right. Statement 1 is true, Statement 2 is false. Statement 1 is false, Statement 2 is true. Both Statement 1 and Statement 2 are true. Both Statement 1 and Statement 2 are false. Yes, the answer is correct.
Assignment submitted on 2021-03-31, 21:12 IST More than one option may be right. Partial marks are awarded if only some of the correct options are selected and none of the wrong options are selected 1 point Which of the following is true? Statement 1: A patent is protected for 20 years from the date of application. Statement 2: Infringement means violation of an intellectual property right. Statement 1 is true, Statement 2 is false. Statement 1 is false, Statement 2 is true. Both Statement 1 and Statement 2 are true. Both Statement 1 and Statement 2 are false. Yes, the answer is correct. Score: 1 Accepted Answers:

Statement 1 is false, Statement 2 is true.
Both Statement 1 and Statement 2 are true.
Both Statement 1 and Statement 2 are false.
Yes, the answer is correct. Score: 1
Accepted Answers: Statement 1 is true, Statement 2 is false.
1 point Which of the following is true? Statement 1: Intellectual property rights are non-exclusive set of rights. Statement 2: Intellectual property rights are rights which protect products of human creative labour.
Statement 1 is true, Statement 2 is false.
Statement 1 is false, Statement 2 is true.
Both Statement 1 and Statement 2 are true.
Both Statement 1 and Statement 2 are false.
Yes, the answer is correct. Score: 1
Accepted Answers: Statement 1 is false, Statement 2 is true.
1 pointWhich of the following is true?Statement 1: A trademark is granted for a period of 15 years and can be renewed thereafter.Statement 2: Intellectual property rights first came up during the green revolution.
Statement 1 is true, Statement 2 is false.
Statement 1 is false, Statement 2 is true.
Both Statement 1 and Statement 2 are true.
Both Statement 1 and Statement 2 are false.
Yes, the answer is correct. Score: 1
Accepted Answers: Both Statement 1 and Statement 2 are false.
1 point Which of the following are the two types of property?
Public
Government
Private
Lawful
Yes, the answer is correct. Score: 1
Accepted Answers: Public Private
1 point What is the duration of copyright in India?

	Life of author + 20 Years
	Life of author + 40 Years
	Life of author + 60 Years
	Life of author + 80 Years
Yes,	, the answer is correct. re: 1
	epted Answers: of author + 60 Years
1 pc	ch of the intellectual property rights helps in identifying the company?
	Copyright
	Geographical Indication
	Patent
	Trademark
Yes,	, the answer is correct. re: 1
	epted Answers: demark
1 pc	ch of the following is an example of real property?
	Invention
	House
	Trademark
	Car
Yes,	, the answer is correct. re: 1
Acce Hou Car	
1 pc	ch of the following are common characteristics of intellectual property rights?
	It is protectable by law
	It is intangible in nature
	It cannot be easily replicated
	It has commercial value.
Yes,	, the answer is correct. re: 1
It is It is	epted Answers: protectable by law intangible in nature as commercial value.
1 pc A bc	oint ook written by Prof Feroz can be protected by which of the following IP rights?

Trademark
Patent
Copyright
Design
Yes, the answer is correct.
Score: 1
Accepted Answers: Copyright
Assignment 7
The due date for submitting this assignment has passed.
Due on 2021-04-07, 23:59 IST.
Assignment submitted on 2021-04-07, 21:28 IST
More than one option may be right. Partial marks are awarded if only some of the correct options are selected and none of the wrong options are selected.
100 numbers forming an arithmetic progression with starting value a=5 and difference =3 are taken. The mean value of this collection of 100 numbers is
Yes, the answer is correct. Score: 1
Accepted Answers: (Type: Numeric) 153.5
1 point
1 point Identify the TRUE statement(s) from the following
In a collection of positive numbers, the arithmetic mean can become negative
in a conection of positive numbers, the antimient mean can become negative
Two collections containing different sets of numbers may have the same mean but different standard deviations
Standard deviation of a collection of negative numbers is negative
When a fictitious population comprises of exactly one number, say 10, the standard deviation of this
population is undefined
Yes, the answer is correct. Score: 1
Accepted Answers: Two collections containing different sets of numbers may have the same mean but different standard deviations
1 point
Consider the sample consisting of the following nine results : 2.3, 7.2, 3.7, 4.6, 5.0, 7.0, 3.7, 4.9, 4.2.
The second quartile of this data collection will be equal to
The man
the mean
the median

twice the mean
0.5
Yes, the answer is correct. Score: 1
Accepted Answers: the median
The permitted values of a discrete distribution of numbers are 1,2,3,4 and 5. Their associated probability values are given below $p(1) = 0.321$, $p(2) = 0.421$, $p(3) = 0.209$, $p(4)=0.049$ Find ithe mean and variance of this probability distribution.
Find the mean of this probability distribution.
Yes, the answer is correct. Score: 0.5
Accepted Answers: (Type: Range) 1.98,1.99
0.5 pointsFind the variance of this probability distribution.
Yes, the answer is correct. Score: 0.5
Accepted Answers: (Type: Range) 0.72,0.73
0.5 points1 pointIdentify the TRUE statement(s) from the following
A continuous probability distribution is given by the function $f(x)f(x)$. Irrespective of the form $f(x)f(x)$ then
$\int_{\infty} 0f(x) dx = 1 \int_{\infty} 0 x f(x) dx = 1$
$\int_{\infty 0} (x-\mu)^2 f(x) dx = \sigma^2 \int_{\infty 0} (x-\mu)^2 f(x) dx = \sigma^2 \qquad \text{where } \mu\mu \text{ is mean and } \sigma^2\sigma^2 \text{ is variance}$
$\int_{aa}f(x)dx=0$ aaf(x)dx=0 where aa is a constant>0
$\int_{\infty 0} (x-\mu) f(x) dx = 0 \int_{\infty} 0 (x-\mu) f(x) dx = 0$
Partially Correct. Score: 0.25
Accepted Answers: $\int_{\infty} 0f(x) dx = 1 \int_{\infty} 0 f(x) dx = 1$
$\int_{\infty 0} (x-\mu) 2f(x) dx = \sigma 2 \int_{\infty 0} (x-\mu) 2f(x) dx = \sigma 2 \qquad \text{where } \mu \mu \text{ is mean and } \sigma 2\sigma 2 \text{ is variance}$ $\int_{aa} f(x) dx = 0 \int_{\infty 0} (x-\mu) f(x) dx = 0 \qquad \text{where } aa \text{ is a constant} > 0$ $\int_{\infty 0} (x-\mu) f(x) dx = 0 \int_{\infty 0} (x-\mu) f(x) dx = 0$

A probability density function is given by:

$$f(x) = 0 \qquad \text{for } x < 0$$

$$f(x) = \mathbf{P} x^2 \text{ for } 0 < x < 2$$

$$f(x) = 0$$
 for $x > 2$

The value of PP such that f(x)f(x) is a legitimate probability distribution function is ______

Yes, the answer is correct.

Score: 1

Accepted Answers: (Type: Numeric) 0.375

1 point

The numerical values of mean and variance of the above probability distribution (given in problem 7 after finding numerical value of P) are

a) Mean =

Yes, the answer is correct.

Score: 0.5

Accepted Answers: (Type: Numeric) 1.5

0.5 points

b) Variance = _____

Yes, the answer is correct.

Score: 0.5

Accepted Answers: (Type: Numeric) 0.15

0.5 points

If the probability distribution is normal with mean 0 and variance 1, and the probability of finding the standard normal variable Z between $\pm\pm$ 0.76 is 0.553, what is the probability P(Z<-0.76)? Round off to 3 decimal places.

No, the answer is incorrect.

Score: 0

Accepted Answers: (Type: Numeric) 0.224

1 point

The population standard deviation of measurements of an engine part is 0.50 mm. What minimum sample size is required if the sample standard deviation must be 0.125 mm?

Yes, the answer is correct.

Score: 1

Accepted Answers: (Type: Numeric) 16

1 point 1 point

Pick the False statement(s) from the following

Central Limit Theorem is very useful in statistical analysis. Assume in all the cases that the samples are truly random

According to this theorem
If the parent distribution is normal, the sampling distribution is not normal if sample size is < 30
If the parent distribution is normal, the sampling distribution is not normal if sample size is > 30
If the parent distribution is not normal, the sampling distribution is normal if sample size is < 30
If the parent distribution is not normal, the sampling distribution is also not normal irrespective of the sample size
Yes, the answer is correct. Score: 1
Accepted Answers: If the parent distribution is normal, the sampling distribution is not normal if sample size is < 30 If the parent distribution is normal, the sampling distribution is not normal if sample size is > 30 If the parent distribution is not normal, the sampling distribution is normal if sample size is < 30 If the parent distribution is not normal, the sampling distribution is also not normal irrespective of the sample size
Assignment 8
The due date for submitting this assignment has passed.
Due on 2021-04-14, 23:59 IST.
Assignment submitted on 2021-04-14, 22:35 IST
More than one option may be right. Partial marks are awarded if only some of the correct options are selected and none of the wrong options are selected.
Based on the article at: https://en.wikipedia.org/wiki/History of the camera, answer the questions below.
1 point Camera obscura helped determine:
Light travels in straight lines
Light bends around corners
Light travels faster than sound
Nothing can travel faster than light
Yes, the answer is correct. Score: 1
Accepted Answers: Light travels in straight lines
1 point Before the advent of films, images were recorded by
LCD screens
Printing on oil paper
Printing on cloth
Tracing the outline
Yes, the answer is correct. Score: 1
Accepted Answers:

Tracing the outline
1 point The first permanent photograph needed an exposure of
1 second
8 seconds
8 minutes
8 hours
Yes, the answer is correct. Score: 1
Accepted Answers: 8 hours
1 point The first commercial photographing camera
Was based on a single box design
Was based on a double box design
Used a ground glass focusing screen
Used a 35 mm film roll
Yes, the answer is correct. Score: 1
Accepted Answers: Was based on a double box design
Used a ground glass focusing screen
1 point Which of the following is/are true:
1 point
1 point Which of the following is/are true:
1 point Which of the following is/are true: The use of photographic film was pioneered by George Eastman
1 point Which of the following is/are true: The use of photographic film was pioneered by George Eastman George Eastman created a camera called Kodak
1 point Which of the following is/are true: The use of photographic film was pioneered by George Eastman George Eastman created a camera called Kodak Kodak had a single lens of fixed focus
1 point Which of the following is/are true: The use of photographic film was pioneered by George Eastman George Eastman created a camera called Kodak Kodak had a single lens of fixed focus Kodak had a single shutter speed Yes, the answer is correct.
1 point Which of the following is/are true: The use of photographic film was pioneered by George Eastman George Eastman created a camera called Kodak Kodak had a single lens of fixed focus Kodak had a single shutter speed Yes, the answer is correct. Score: 1 Accepted Answers: The use of photographic film was pioneered by George Eastman George Eastman created a camera called Kodak Kodak had a single lens of fixed focus
1 point Which of the following is/are true: The use of photographic film was pioneered by George Eastman George Eastman created a camera called Kodak Kodak had a single lens of fixed focus Kodak had a single shutter speed Yes, the answer is correct. Score: 1 Accepted Answers: The use of photographic film was pioneered by George Eastman George Eastman created a camera called Kodak Kodak had a single lens of fixed focus Kodak had a single shutter speed 1 point
1 point Which of the following is/are true: The use of photographic film was pioneered by George Eastman George Eastman created a camera called Kodak Kodak had a single lens of fixed focus Kodak had a single shutter speed Yes, the answer is correct. Score: 1 Accepted Answers: The use of photographic film was pioneered by George Eastman George Eastman created a camera called Kodak Kodak had a single lens of fixed focus Kodak had a single shutter speed 1 point 35 mm film cameras were first popularized by companies such as
Which of the following is/are true: The use of photographic film was pioneered by George Eastman George Eastman created a camera called Kodak Kodak had a single lens of fixed focus Kodak had a single shutter speed Yes, the answer is correct. Score: 1 Accepted Answers: The use of photographic film was pioneered by George Eastman George Eastman created a camera called Kodak Kodak had a single lens of fixed focus Kodak had a single shutter speed 1 point 35 mm film cameras were first popularized by companies such as Leica
1 point Which of the following is/are true: The use of photographic film was pioneered by George Eastman George Eastman created a camera called Kodak Kodak had a single lens of fixed focus Kodak had a single shutter speed Yes, the answer is correct. Score: 1 Accepted Answers: The use of photographic film was pioneered by George Eastman George Eastman created a camera called Kodak Kodak had a single lens of fixed focus Kodak had a single shutter speed 1 point 35 mm film cameras were first popularized by companies such as Leica Contax
1 point Which of the following is/are true: The use of photographic film was pioneered by George Eastman George Eastman created a camera called Kodak Kodak had a single lens of fixed focus Kodak had a single shutter speed Yes, the answer is correct. Score: 1 Accepted Answers: The use of photographic film was pioneered by George Eastman George Eastman created a camera called Kodak Kodak had a single lens of fixed focus Kodak had a single shutter speed 1 point 35 mm film cameras were first popularized by companies such as Leica Contax Panasonic

Leica Contax	
1 point The pentaprism enabled	
Eye level viewfinders	
Waist level focusing screens	
Viewfinder less cameras	
Focus free cameras	
No, the answer is incorrect. Score: 0	
Accepted Answers: Eye level viewfinders	
1 point Through the lens metering become most commonly used on	
SLRs	
TLRs	
Poloroids	
Obscuras	
Yes, the answer is correct. Score: 1	
Accepted Answers: SLRs	
1 point Digital camera image sensors is/are based on or related to	
MOSFETs	
Metal oxide semiconductor technology	
CCD	
CMOS	
Yes, the answer is correct. Score: 1	
Accepted Answers:	
MOSFETs Metal oxide semiconductor technology	
CCD CMOS	
1 point The first major camera manufacturer, to build a digital SLR from the ground up, was	
Canon	
Nikon	
Minolta	
Ricoh	
No, the answer is incorrect.	
Score: 0 Accepted Answers: Nikon	



assignment. 1) Consider that you have collected the following resources towards your research: (1) A 1 points of the following resources towards your research: (1) A 1 points of the following resources towards your research: (1) A 1 points of the following resources towards your research: (1) A 1 points of the following resources towards your research: (1) A 1 points of the following resources towards your research: (1) A 1 points of the following resources towards your research: (1) A 1 points of the following resources towards your research: (1) A 1 points of the following resources towards your research: (1) A 1 points of the following resources towards your research: (1) A 1 points of the following and the following resources towards your research: (1) A 1 points of the following and the following and the following resources towards your research: (1) A 1 points of the following and the following resources towards your research: (1) A 1 points of the following and the following and the following and the following resources towards your research: (1) A 1 points of the following and the fol	ourse utline	Assignment 2
reference in a journal article that you have not referred yet (2) A link to the website of a professional society (3) A published article with journal, year, volume and page number (4) An article from a newly launched journal with volume number, page number but year and ISSN number are due (5) A newly launched journal article with DOI link, (6) A book with an ISBN number available. Which of the followire can be considered as archival references for inclusion in a publication? Week 2: iterature unvey, experimental kills Only 1, 2 and 3 Only 3, 5 and 6 Only 1, 2 and 5 No, the answer is incorrect. Score: 0 Accepted Answers: Only 3, 5 and 6 2) Which of the following methods of searching for literature is suitable to identify the earliest 1 poi contributor of a scientific outcome? Keyword based search followed by sorting by year of publication Keyword based search followed by sorting by year of publication Keyword based search followed by sorting by year of publication Keyword based search followed by sorting by year of publication Keyword based search following a keyword based search No, the answer is incorrect. Score: 0 Accepted Answers: Back reference based search following a keyword based search No, the answer is incorrect. Score: 0 Accepted Answers: Revivered based search following a keyword based search	low to access	As per our records you have not submitted this Due on 2018-09-05, 23:59 IST.
Accepted Journal article with DOI link, (6) A book with an ISBN number available. Which of the following can be considered as archival references for inclusion in a publication? Only 1, 2 and 3 Only 3, 5 and 6 Only 1, 2 and 5 Only 1, 2 and 5 No, the answer is incorrect. Survey Survey using WebofScience Literature Survey Accepted Answers: Reyword based search followed by sorting by year of publication Keyword based search followed by sorting by citations Meet 2: Accepted Answers: Reyword based search following a keyword based search No, the answer is incorrect. Score: 0 Accepted Answers: Reyword based search following a keyword based search	Neek 1: Group Discussion on Research	
iterature Survey, Experimental Skills Only 3, 5 and 6 Only 1, 2 and 5 No, the answer is incorrect. Survey Literature Survey using WebofScience Literature Survey using Scopus Writing Up Tutorial on using BibTeX with LaTeX to add references to a document Tutorial on using Microsoft Word with Only 3, 5 and 6 Only 1, 2 and 5 No, the answer is incorrect. Score: 0 Accepted Answers: Only 3, 5 and 6 Only 3, 5 and 6 No, the answer is incorrect. Score: 0 Accepted Answers: Citation based search followed by sorting by year of publication Keyword based search followed by sorting by citations Keyword based search followed by sorting by citations No, the answer is incorrect. Score: 0 Accepted Answers: Back reference based search following a keyword based search No, the answer is incorrect. Score: 0 Accepted Answers: Back reference based search following a keyword based search	Overview of	accepted journal article with DOI link, (6) A book with an ISBN number available. Which of the following
Overview of Literature Survey Literature Survey using WebofScience Literature Survey using WebofScience Literature Survey using Scopus Writing Up Tutorial on using BibTeX with LaTeX to add references to a document Tutorial on using Microsoft Word with Mo, the answer is incorrect. Score: 0 Accepted Answers: Only 3, 5 and 6 2) Which of the following methods of searching for literature is suitable to identify the earliest 1 poi contributor of a scientific outcome? Keyword based search followed by sorting by year of publication Keyword based search followed by sorting by citations Keyword based search followed by sorting by citations No, the answer is incorrect. Score: 0 Accepted Answers: Pack reference based search following a keyword based search No accepted Answers: Pack reference based search following a keyword based search	Literature Survey, Experimental	Only 3, 5 and 6 Only 3, 4 and 6
Survey using WebofScience Literature Survey using Scopus Writing Up Tutorial on using BibTeX with LaTeX to add references to a document Tutorial on using Microsoft Word with Accepted Answers: Back reference based search following a keyword based search follo	Literature	No, the answer is incorrect.
Literature Survey using Scopus Keyword based search followed by sorting by year of publication Citation based search followed by sorting by year of publication Citation based search followed by sorting by year of publication Keyword based search followed by sorting by citations Keyword based search followed by sorting by citations Keyword based search following a keyword based search No, the answer is incorrect. Score: 0 Accepted Answers: Rack reference based search following a keyword based search	Survey using	
Writing Up Citation based search followed by sorting by year of publication Citation based search followed by sorting by year of publication Keyword based search followed by sorting by citations Keyword based search followed by sorting by citations Keyword based search followed by sorting by citations Back reference based search following a keyword based search No, the answer is incorrect. Score: 0 Accepted Answers: Back reference based search following a keyword based search	Survey using	
Citation based search followed by sorting by year of publication Tutorial on using BibTeX with LaTeX to add references to a document Tutorial on using Microsoft Word with Citation based search followed by sorting by citations Keyword based search following a keyword based search No, the answer is incorrect. Score: 0 Accepted Answers: Back reference based search following a keyword based search Accepted Answers:	·	
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	using Microsoft Word with Bibliographic	Score: 0 Accepted Answers:
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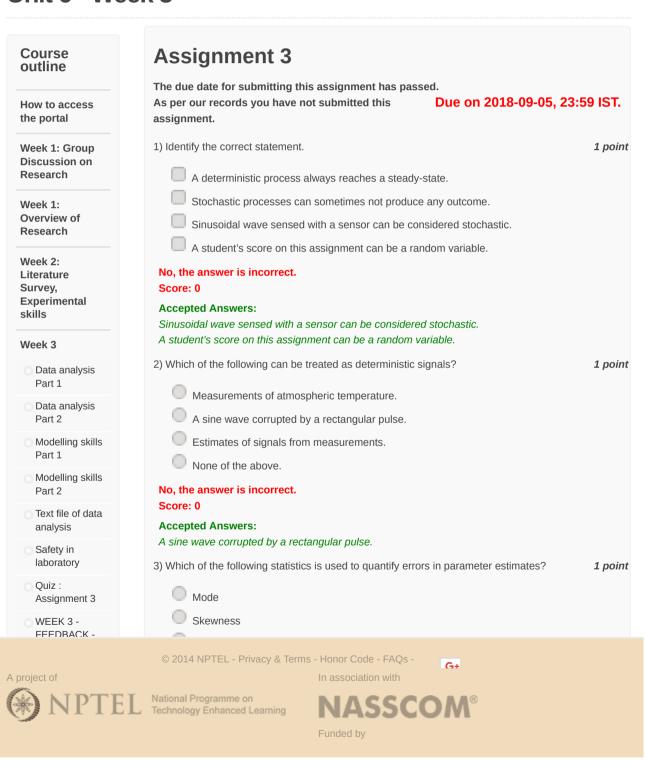
Quiz : Assignment 2	
ASSIGNING III C	Journal, Year, Issue
_	No, the answer is incorrect.
WEEK 2 -	Score: 0
FEEDBACK - Introduction to	
research	Accepted Answers:
Week 3	Book, Author, Publisher, Year, ISBN, Page number
vveek 3	4) Which of the following is an acceptable reference in a publication? 1 points
Week 4	An article in a local edition of a popular news paper
Week 5	A doctoral thesis with an active DOI link
14/ 1- 0	A journal article which is out of print
Week 6- Intellectual	A private website describing the concept correctly
property	- A private wessite describing the contests
	No, the answer is incorrect.
Week 7- Design	Score: 0
of Experiments	Accepted Answers:
	A doctoral thesis with an active DOI link
Week 8-	CAMBLE A CHARLES AND A CHARLES
Department	5) Which of the following bibliographic details is a sufficient and unique piece of information to 1 points
specific discussions	locate an article in an archival journal?
uiscussions	
DOWNLOAD	□ ISSN
VIDEOS	DOI
	0.5
TEXT	Page Number
TRANSLATION	Volume Number
	No, the answer is incorrect.
	Score: 0
	Accented Anguard
	Accepted Answers:
	Accepted Answers: DOI
	DOI
	DOI6) Bibliographic information can be stored in the following formating options: (1) BibTeX (2) 1 point
	6) Bibliographic information can be stored in the following formating options: (1) BibTeX (2) 1 points: (3) CSV (4) XML (5) Plain Unformatted Text. Which of the following options is a recommended set
	6) Bibliographic information can be stored in the following formating options: (1) BibTeX (2) 1 point RIS (3) CSV (4) XML (5) Plain Unformatted Text. Which of the following options is a recommended set of formats to save the bibliographic data as a file on your computer? Option 4 only
	6) Bibliographic information can be stored in the following formating options: (1) BibTeX (2) 1 points (3) CSV (4) XML (5) Plain Unformatted Text. Which of the following options is a recommended set of formats to save the bibliographic data as a file on your computer? Option 4 only Options 4 and 5
	6) Bibliographic information can be stored in the following formating options: (1) BibTeX (2) 1 point RIS (3) CSV (4) XML (5) Plain Unformatted Text. Which of the following options is a recommended set of formats to save the bibliographic data as a file on your computer? Option 4 only
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	6) Bibliographic information can be stored in the following formating options: (1) BibTeX (2) 1 points (3) CSV (4) XML (5) Plain Unformatted Text. Which of the following options is a recommended set of formats to save the bibliographic data as a file on your computer? Option 4 only Options 4 and 5 Options 1, 2 and 4 Option3 and 5 No, the answer is incorrect. Score: 0
	6) Bibliographic information can be stored in the following formating options: (1) BibTeX (2) 1 point RIS (3) CSV (4) XML (5) Plain Unformatted Text. Which of the following options is a recommended set of formats to save the bibliographic data as a file on your computer? Option 4 only Options 4 and 5 Options 1, 2 and 4 Option3 and 5 No, the answer is incorrect.
	6) Bibliographic information can be stored in the following formating options: (1) BibTeX (2) 1 point RIS (3) CSV (4) XML (5) Plain Unformatted Text. Which of the following options is a recommended set of formats to save the bibliographic data as a file on your computer? Option 4 only Options 4 and 5 Options 1, 2 and 4 Option3 and 5 No, the answer is incorrect. Score: 0 Accepted Answers: Options 1, 2 and 4
	6) Bibliographic information can be stored in the following formating options: (1) BibTeX (2) 1 point RIS (3) CSV (4) XML (5) Plain Unformatted Text. Which of the following options is a recommended set of formats to save the bibliographic data as a file on your computer? Option 4 only Options 4 and 5 Options 1, 2 and 4 Option3 and 5 No, the answer is incorrect. Score: 0 Accepted Answers: Options 1, 2 and 4 7) Which of the following indices is considered as a measure of the activity in a particular research topic?
	6) Bibliographic information can be stored in the following formating options: (1) BibTeX (2) 1 point RIS (3) CSV (4) XML (5) Plain Unformatted Text. Which of the following options is a recommended set of formats to save the bibliographic data as a file on your computer? Option 4 only Options 4 and 5 Options 1, 2 and 4 Option3 and 5 No, the answer is incorrect. Score: 0 Accepted Answers: Options 1, 2 and 4 7) Which of the following indices is considered as a measure of the activity in a particular 1 point
	6) Bibliographic information can be stored in the following formating options: (1) BibTeX (2) 1 point RIS (3) CSV (4) XML (5) Plain Unformatted Text. Which of the following options is a recommended set of formats to save the bibliographic data as a file on your computer? Option 4 only Options 4 and 5 Options 1, 2 and 4 Option3 and 5 No, the answer is incorrect. Score: 0 Accepted Answers: Options 1, 2 and 4 7) Which of the following indices is considered as a measure of the activity in a particular research topic?
	6) Bibliographic information can be stored in the following formating options: (1) BibTeX (2) 1 point RIS (3) CSV (4) XML (5) Plain Unformatted Text. Which of the following options is a recommended set of formats to save the bibliographic data as a file on your computer? Option 4 only Options 4 and 5 Options 1, 2 and 4 Option3 and 5 No, the answer is incorrect. Score: 0 Accepted Answers: Options 1, 2 and 4 7) Which of the following indices is considered as a measure of the activity in a particular research topic? Number of subscriptions to journals that publish articles in that topic
	6) Bibliographic information can be stored in the following formating options: (1) BibTeX (2) 1 point RIS (3) CSV (4) XML (5) Plain Unformatted Text. Which of the following options is a recommended set of formats to save the bibliographic data as a file on your computer? Option 4 only Options 4 and 5 Options 1, 2 and 4 Option3 and 5 No, the answer is incorrect. Score: 0 Accepted Answers: Options 1, 2 and 4 7) Which of the following indices is considered as a measure of the activity in a particular research topic? Number of subscriptions to journals that publish articles in that topic Number of articles in that topic being published
	6) Bibliographic information can be stored in the following formating options: (1) BibTeX (2) 1 point RIS (3) CSV (4) XML (5) Plain Unformatted Text. Which of the following options is a recommended set of formats to save the bibliographic data as a file on your computer? Option 4 only Options 4 and 5 Options 1, 2 and 4 Option3 and 5 No, the answer is incorrect. Score: 0 Accepted Answers: Options 1, 2 and 4 7) Which of the following indices is considered as a measure of the activity in a particular research topic? Number of subscriptions to journals that publish articles in that topic Number of articles in that topic being published Number of views of articles in that topic on the journal website

Accepted Answers: Number of articles in that topic being published	
8) While writing an article for publication in an archival journal, which onecessary at the end of the article?	of the following is 1 point
List of books in that topic	
List of all archival bibliographic items referred in the article	
List of all the bibliographic items relevant to the subject	
List of all websites referred to	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
List of all archival bibliographic items referred in the article	
Which of the following is not an acceptable reference in a publication	on? 1 point
Private communication with an established scientist	
English translation of an article which in its original language	is out of print
A private website describing the concept correctly	
A doctoral thesis describing the concept correctly	
No, the answer is incorrect. Score: 0	
Accepted Answers: A private website describing the concept correctly	
10)You have read a white paper published by an organization in their variefer to it in a journal article you are writing. Which of the following descreter?	·
Author, title of the article, organization	
Author, title of the article, website containing the article, last a	ccessed date
Title of the article, organization, website	
Author, title of the article, website of the organization	
No, the answer is incorrect. Score: 0	
Accepted Answers: Author, title of the article, website containing the article, last accesse	d date
Previous Page	End

3 of 4



Unit 6 - Week 3



Intellectual property	4) Which of the following is true in data-driven analysis? 1 point
Week 7- Design	An estimate is essentially a mathematical function of observations.
of Experiments	A statistic is also a random variable.
Week 8-	Estimates can never converge to the truth, even with infinite sample size.
Department specific	The value of estimate can be non-zero even if the true parameter is zero.
discussions	No, the answer is incorrect.
DOWNLOAD	Score: 0 Accepted Answers:
VIDEOS	An estimate is essentially a mathematical function of observations.
TEXT	A statistic is also a random variable. The value of estimate can be non-zero even if the true parameter is zero.
TRANSLATION	5) Which of the following transforms are used to detect periodic (oscillatory) components in a 1 point
	signal?
	Hilbert transform.
	z-transform.
	Fourier transform.
	All of the above.
	No, the answer is incorrect.
	Score: 0
	Accepted Answers: Fourier transform.
	6) Which of the following is true concerning a parameter estimate? 1 point
	It is in general close to the true value with high probability.
	When averaged across a million experimental records under same operating conditions, the estimate equals the true value.
	Least squares method always gives the estimate with lowest error.
	It is a mathematical function of the observations
	No, the answer is incorrect. Score: 0
	Accepted Answers:
	It is a mathematical function of the observations
	7) Identify the incorrect statement(s) among the following w.r.t. non-linear models. 1 <i>point</i>
	Linearization involves mere discarding of the non-linear terms in a model.
	The standard Taylor's series-based linearized model changes with the nominal point of linearization.
	A non-linear model can never yield a zero-valued output to a non-zero input.
	Estimates of linear models have smaller errors than those of non-linear models.
	No, the answer is incorrect. Score: 0
	Accepted Answers:
	Linearization involves mere discarding of the non-linear terms in a model. A non-linear model can never yield a zero-valued output to a non-zero input.
	Estimates of linear models have smaller errors than those of non-linear models.
	8) Which of the following is true concerning empirical (data-driven) and first-principles 1 point

models?		
First-principles models are always non-linear, whereas data-driven models non-linear.	can be linea	ar or
An empirical model can be sometimes used for extrapolation.		
Data-driven models can accommodate some prior knowledge of the physic process.	s underlying	; the
First-principles models can carry a few parameters that are determined ex	perimentally.	
No, the answer is incorrect. Score: 0		
Accepted Answers: An empirical model can be sometimes used for extrapolation. Data-driven models can accommodate some prior knowledge of the physics under First-principles models can carry a few parameters that are determined experimental.		ocess.
9) The ratio of errors in parameter estimates of a model from two data sets with SN 100 is $\frac{1}{2}$	IR 9 and 2	1 point
O 3:10 O 5:1		
0 10:3		
10:0.9		
No, the answer is incorrect. Score: 0		
Accepted Answers: 10:3		
10) dentify, among the following models, the linear dynamic model(s) for a generic (discrete-time) process with input u[k] and output y [k]:	2	1 point
y[k] = 0.75u[k-1] + u[k-10]		
$ y [k] = 2.5u^2 [k-1] + 3 $		
y[k] = 2.1u[k]		
y[k] = u[k-1] - 2u[k-2].		
No, the answer is incorrect. Score: 0		
Accepted Answers: y[k] = 0.75u[k - 1] + u[k - 10] y[k] = u[k - 1] - 2u[k - 2].		
Dura issue De ve		

Previous Page

End



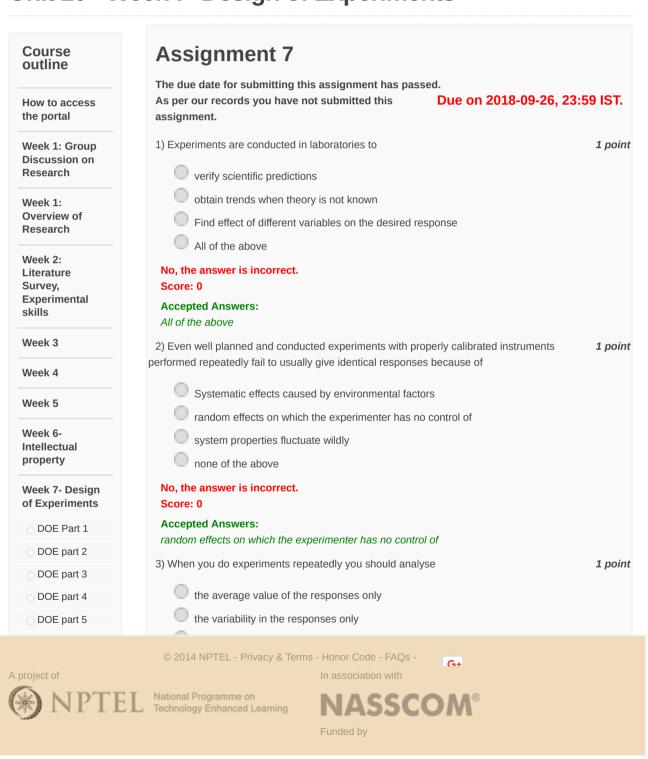
Assignment 4
The due date for submitting this assignment has passed. As per our records you have not submitted this assignment. Due on 2018-09-12, 23:59 IST.
Indicate if the following statements are True or false
1) The title of a paper should indicate the area of work as well as what 1 point is unique about the work.
☐ True
False
No, the answer is incorrect. Score: 0
Accepted Answers: True
2) "Pouring rain results in clogged drains, and slippery roads. These 1 poin
clogged drains spill further water on to the roads." Use of the word 'these' in the previous sentence is ambiguous.
☐ True
False
No, the answer is incorrect.
Score: 0 Accepted Answers: False
3) In images, high magnification is less important compared to high resolution.
☐ True
False

of Experiments	☐ True	
Week 8-	© False	
Department specific	No, the answer is incorrect.	
discussions	Score: 0	
DOWNLOAD VIDEOS	Accepted Answers: False	
	5) While presenting data it is important to pay attention to the number 1 poir	nt .
TEXT TRANSLATION	of significant digits.	
	True	
	☐ False	
	No, the answer is incorrect.	
	Score: 0	
	Accepted Answers: True	
	6) A reasonable pace for presentation is 10 slides a minute 1 poin	nt
	True	
	○ False	
	No, the answer is incorrect.	
	Score: 0	
	Accepted Answers: False	
	7) Highlighting the presence of wires close to the engine in a 1 poir photograph of a car engine, distracts from the discussion on the capacity of the car engine.	nt
	True False	
	No, the answer is incorrect. Score: 0	
	Accepted Answers: True	
	8) In scientific documents sentences should be relatively short and to 1 point the point.	nt
	True	
	False	
	No, the answer is incorrect. Score: 0	
	Accepted Answers: True	
	⁹⁾ Even if you know the result, it is not acceptable to state it in a scientific document using "It is obvious that"	nt
	True	
	False	

No, the answer is incorrect. Score: 0	
Accepted Answers: True	
$10\mbox{\centered}$ Scientific documents and science fiction have the same style of writing since they both discuss science and are intended to interest the audience.	1 point
TrueFalse	
No, the answer is incorrect. Score: 0	
Accepted Answers: False	
Previous Page End	



Unit 10 - Week 7- Design of Experiments



Department specific discussions	4) The average estimated from a data collection is 50 cm. The quantity (quantities) which has 1 µ ce De the same units of the data is(are)	ooint
DOWNLOAD	Standard deviation	
VIDEOS	median	
TEXT	mode	
TRANSLATION	All of the above	
	No, the answer is incorrect. Score: 0	
	Accepted Answers: All of the above	
	5) Data for Problems 5 and 6 Sample collected from an instrument giving binary data has the following values {1,-1,-1,1,-1}	point
	Mean of the above data set is	
	O -1	
	0	
	O 1	
	No, the answer is incorrect. Score: 0	
	Accepted Answers:	
	0	
	6) Sample standard deviation (s) of the above data set is	point
	□ -1	
	O 0	
	1.095	
	1.200	
	No, the answer is incorrect. Score: 0	
	Accepted Answers:	
	1.095	
		point
	Data for Problems 7 and 8 The probability density function for Residence Time Distribution (RTD) is defined as follows	
	$f(heta) = rac{1}{ au} e^{-t/ au}$	
	$f(\theta) = \frac{-e^{-\tau/\tau}}{\tau}$	
	The given equation $f(\theta)$ serves the necessary and sufficient condition for a continuous probability distribution because	
	$\int_0^\infty f(\theta) = 0$	
	$\int_0^\infty f(\theta) = \infty$	
	$\int_0^\infty f(\theta) = 0$ $\int_0^\infty f(\theta) = \infty$ $\int_0^\infty f(\theta) = 1$	
	20 / 1 /	

$\int_0^\infty f(\theta) = \tau$		
No, the answer is incorrect. Score: 0		
Accepted Answers:		
$\int_0^\infty f(\theta) = 1$		
8) The mean value of the distributi	on, is	1 point
_ τ		
O 0		
○ ∞		
_ τ/2		
No, the answer is incorrect. Score: 0		
Accepted Answers:		
τ		
9) In a normal distribution with	h parameter μ and σ^2 , the	1 point
mean ≠ median ≠ mode		
distribution is not symmetry	ric about the mean	
mean is always zero		
None of the above		
No, the answer is incorrect. Score: 0		
Accepted Answers:		
None of the above		
	AYS correct, where $\overline{\mathbf{x}}$ is the sample mean and n is the	1 point
sample size		
$\sum_{i=1}^n (x_i - \bar{\mathbf{x}}) = 0$		
$\sum_{i=1}^n (x_i - \bar{\mathbf{x}})^2 = 0$		
$\sum_{i=1}^{n} (x_i - \overline{x}) = 0$		
$\sum_{i=1}^{n} (x_i - \bar{\mathbf{x}})^{0.5} = 0$		
No, the answer is incorrect. Score: 0		
Accepted Answers:		
$\sum_{i=1}^n (x_i - \bar{\mathbf{x}}) = 0$		
Previous Page	End	

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Courses » Introduction to Research

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Unit 3 - Week 1: Group Discussion on Research

Register for Certification exam

Course outline

How to access the portal

Pre-requisite Assignment

Week 1: Group Discussion on Research

- Part 1
- Part 2
- Part 3
- Part 4
- Quiz : Assignment 1
- WEEK 1
 FEEDBACK Introduction to
 Research

Week 1: Overview of Research

Week 2: Literature Survey, Experimental skills

Week 3

Assignment 1

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.

Due on 2019-03-13, 23:59 IST.

Read the passage below and answer the questions that follow:

Engineers and Scientists:

We live in a world that is filled with a wide range of technologies that we use and we take for granted. The speed with which new technologies appear and disappear is constantly increasing. These days many of the gadgets we buy get outdated in a time frame of two to three years. This is a short time frame since many of the technologies in use are robust enough to physically last several years. However, in terms of features and utility, they get outdated much sooner than that. This is also a short time frame relative to how long technologies were used two or three decades ago. An example is the media used to store music. While gramophone records and cassettes lasted decades, DVDs have fast disappeared. Almost any mobile phone or computer purchased these days become obsolete in two to three years.

Behind this vast moving world of technologies, is a worldwide army of scientists and engineers. They are constantly on the prowl for making advances to existing technologies. Many industries, companies, and educational institutions are filled with scientists and engineers. While there may be some similarities in the tasks they are involved in, there are also some differences.

An engineer in an industry setting usually faces several technical trouble shooting challenges. Such challenges, with stiff timelines, require substantial familiarity with information databases, and characterization techniques, to be successfully addressed. Addressing trouble shooting challenges are often based on the selection and use of the best available resources and substitutes. The types of questions the engineer is faced with include questions of the sort:

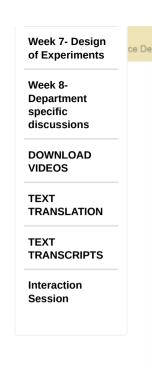
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customers at lower costs and with greater reliability.

A scientist in a university or laboratory setting faces a different kind of challenge. The questions the scientist wishes to answer are:

- 1) Why is the value of any specific property of a material what it is?
- 2) What is the fundamental science behind the property?
- 3) What are the limits, if any, to this property?

Answers to such questions enable one to design new materials and to push the capabilities of existing materials.

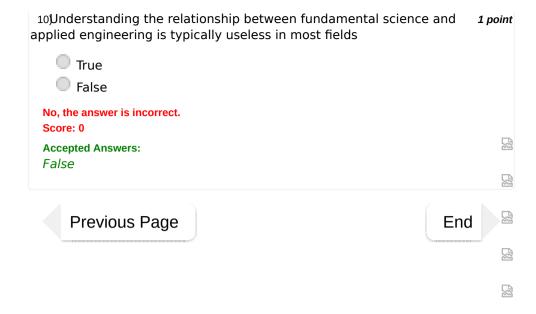
Based on the professional setting a materials specialist ends up in, he/she will likely get pulled into one of the above types of activities. However having both - a good feel for the fundamental sciences, as well as an understanding of the engineering approach to relate to the real world, can greatly enhance the value of a materials scientist/engineer to his or her organization.

At the same time, it usually takes considerable experience to fully understand, appreciate, and make use of the linkages between fundamental science and the world of engineering. Experience and systematic studies provide us with the insight to make the connections between the real world inventions and the science behind them. Such insight helps us truly appreciate the contributions of the scientist as well as the engineer in shaping our interactions with the world around us. Such insight, also enables us to take our technical pursuits to greater heights and wider reaches, and hence is desirable.

1) Technologies in use today have life span of decades	1 point
TrueFalse	
No, the answer is incorrect. Score: 0 Accepted Answers: False	
2) Engineers aim to reduce the number of parts in a product	1 point
TrueFalse	
No, the answer is incorrect. Score: 0	
Accepted Answers: True	
3) Industry aims to satisfy its customers with respect to cost and reliability	1 point
TrueFalse	
No, the answer is incorrect. Score: 0	
Accepted Answers:	

True

4) Reproducibility of parts is an important target in industries	1 point	
True		
False		
No, the answer is incorrect. Score: 0		
Accepted Answers: True	R	
5) Scientists try to determine the root cause of a property of a material	1 point	
TrueFalse		
No, the answer is incorrect. Score: 0		
Accepted Answers: True	B	
6) Engineers cannot do scientific work	1 point	
TrueFalse		
No, the answer is incorrect. Score: 0		
Accepted Answers: False		
7) Scientists cannot do engineering	1 point	
True		
False		
No, the answer is incorrect. Score: 0		
Accepted Answers: False		
8) It is useful to have both a good feel for the fundamental sciences, as well as an understanding of the engineering approach	1 point	
True False		
No, the answer is incorrect. Score: 0		
Accepted Answers: True		
9) Typically, anyone can quickly and easily understand the relationship between science and engineering	1 point	
■ True		
False		
No, the answer is incorrect. Score: 0		
Accepted Answers: False		



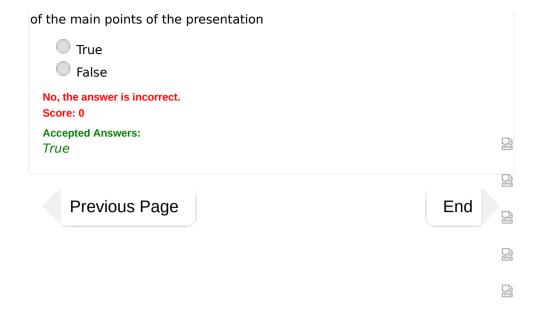
reviewer4@nptel.iitm.ac.in ▼ Courses » Introduction to Research FAQ Announcements Course Ask a Question **Progress** Unit 7 - Week 4 Register for **Assignment 4 Certification exam** The due date for submitting this assignment has passed. Due on 2019-03-27, 23:59 IST. Course As per our records you have not submitted this outline assignment. 1) Wet hands is a safety hazard while running any experiment or How to access 1 point the portal operating any equipment that uses electricity Pre-requisite True Assignment False Week 1: Group No, the answer is incorrect. Discussion on Score: 0 Research **Accepted Answers:** Week 1: True Overview of 2) While using pressurised gas bottles, it is necessary to secure them Research using a chain, close to the base of the bottle, in order to prevent toppling Week 2: Literature True Survey, False Experimental skills No, the answer is incorrect. Score: 0 Week 3 **Accepted Answers:** Week 4 False 3) Eye protection requires shatter resistant glasses that also provide How to make 1 point Technical shielding to the sides of the eyes presentation True Experimental skills False Technical No, the answer is incorrect. Writing Score: 0 Safety in **Accepted Answers:** laboratory True © 2014 NPTEL - Privacy & Terms - Honor Code - FAQs -In association with A project of

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Week 6-	Score: 0
Intellectual property	Accepted Answers: False
Week 7- Design of Experiments	5) The language used in technical documents must aim to avoid ambiguity. 1 point
Week 8- Department	☐ True ☐ False
specific discussions	No the engine is incorrect
DOWNLOAD	Score: 0
VIDEOS	Accepted Answers: True
TEXT TRANSLATION	6) It is useful to use phrases such as "It is obvious" to help emphasize <i>1 poi</i> ther the results.
TEXT TRANSCRIPTS	☐ True
Interaction	False
Session	No, the answer is incorrect. Score: 0
	Accepted Answers: False
	7) A good scientific presentation does not require to be modified for different audiences
	True
	False
	No, the answer is incorrect. Score: 0
	Accepted Answers:
	False
	8) Scientific documents aim to inform the readers in an efficient 1 point manner
	True
	False
	No, the answer is incorrect. Score: 0
	Accepted Answers: True
	9) The pace of the presentation, both in terms of number of slides per 1 point minute as well as the pace of talking, must allow the audience enough time to absorb the details of the work being presented
	True False
	No, the answer is incorrect.
	Score: 0
	Accepted Answers: True
	10Jt is important to complete a technical presentation with a summary 1 point



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Week 6- Intellectual	ce De	Accepted Answers: True	
property		5) A common factor across most successful people is hard work	1 point
Week 7- Design of Experiments		TrueFalse	
Week 8- Department specific discussions		No, the answer is incorrect. Score: 0 Accepted Answers:	
DOWNLOAD		True	<u></u>
VIDEOS		6) Great work does not always need a conducive environment	1 poi
TEXT TRANSLATION		TrueFalse	R
TEXT TRANSCRIPTS		No, the answer is incorrect. Score: 0	
Interaction Session		Accepted Answers: True	
		7) Quality of a researcher is based on recognition by the local neighbourhood of the researcher	1 point
		• True	
		False	
		No, the answer is incorrect. Score: 0	
		Accepted Answers: False	
		8) Confidentiality is a very important aspect associated with the ethics concerning data from people	1 point
		TrueFalse	
		No, the answer is incorrect. Score: 0	
		Accepted Answers: True	
		9) Informed consent is not necessary for testing medicines on patients when the likely benefit to society is high	1 point
		O True	
		False	
		No, the answer is incorrect. Score: 0	
		Accepted Answers: False	
		10)t is believed that 10,000 hours of practise is required to become an expert in any field	1 point
		TrueFalse	

No, the answer is incorrect. Score: 0	
Accepted Answers: True	
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	2



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Course outline

How to access the

Week 1: Group

Discussion on

Week 1: Overview of

Week 2: Literature

Overview of

Survey, Experimental

Literature Survey

using WebofScience

Literature Survey

 Literature Survey using Scopus

Tutorial on using

Tutorial on using

Bibliographic

Tutorial on using

endnote entries

Experimental skills

Introduction to

Week 3

Week 4

Week 5

property

Peer Review

Quiz : Assignment 2

Research: Week 2

Feedback form

Assignment - Week 3

Week 6- Intellectual

Week 7- Design of

Week 8- Department

specific discussions

Text Transcripts

Transcripts Book

VIDEO DOWNLOAD

Accepted Answers:

PubMed

Score: 0

INSPEC and COMPENDEX

Chemical Abstract (CA) service

No, the answer is incorrect.

Accepted Answers:

10)While writing an article for a publication the following information must be taken care of

List of all the text books and references from Google links

All the websites that were referred during literature survey

The article must include all the bibliographic details at the end

The article must include all the bibliographic details at the end

Wikipedia links for the information included in the article from Wikipedia

1 point

Experiments

Sources

document

BibTeX with LaTeX to

add references to a

Microsoft Word with

Microsoft Word with

Writing Up

Research

Research

skills

portal

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Unit 4 - Week 2: Literature Survey, Experimental skills

Assignment 2 Due on 2019-09-11, 23:59 IST. The due date for submitting this assignment has passed. As per our records you have not submitted this assignment. Literature survey is important because 1 point It helps in getting a summary of work that has been done till date in some particular research area It is helpful in ensuring that a research work is not getting repeated It is helpful is understanding the approaches taken by scientists and what are the gaps in the processes It is helpful in clarifying the controversial results that one can get No, the answer is incorrect. Score: 0 Accepted Answers: It helps in getting a summary of work that has been done till date in some particular research area It is helpful in ensuring that a research work is not getting repeated It is helpful is understanding the approaches taken by scientists and what are the gaps in the processes It is helpful in clarifying the controversial results that one can get A research document should contain the following to be used as a reference in a publication 1 point International standard book number (ISBN) International standard serial number (ISSN) Wikipedia link Digital Object Identifier(DOI) number: online publication No, the answer is incorrect. Score: 0 Accepted Answers: International standard book number (ISBN) International standard serial number (ISSN) Digital Object Identifier(DOI) number: online publication The following are categorized as primary source for literature survey 1 point Periodicals & research reports Conference proceedings & official publications Compilations & reviews Directories & year books No, the answer is incorrect. Score: 0 Accepted Answers: Periodicals & research reports Conference proceedings & official publications 4) Which one of the following methods will be most helpful during searching literature to know the earliest publication 1 point in that area? Back reference based search following a keyword based search Citation based search followed by sorting by location of publication Keyword based search followed by sorting by year of publication Keyword based search followed by sorting by citations No, the answer is incorrect. Score: 0 Accepted Answers: Back reference based search following a keyword based search Experimental data generated from a setup must validate the theoretical predictions or models designed for that 1 point setup True False Sometimes Never No, the answer is incorrect. Score: 0 Accepted Answers: Sometimes The readings of electronic display mounted over the laboratory equipment are reliable information to carry out 1 point calculations True False No, the answer is incorrect. Score: 0 Accepted Answers: False 7) Which of the following can be used to store the bibliographic information while saving as a file in your computer? XML format End note format BibTex format None of these No, the answer is incorrect. Score: 0 Accepted Answers: XML format End note format BibTex format 1 point H-index primarily refers to How many times a journal paper has been read by other journals How many times an author's paper has been cited How many times a journal paper has been cited by research in same journal A tool to compare the impact factor of journals No, the answer is incorrect. Score: 0 Accepted Answers: How many times an author's paper has been cited The abstracting databases for systematic manual searches include 1 point ■ INSPEC and COMPENDEX PubMed Wikipedia Chemical Abstract (CA) service No, the answer is incorrect. Score: 0

Course outline

Week 1: Overview of

Experimental skills

Modelling skills

Week 4: Technical

presentation

Assignment

Technical Writing

Week 2: Literature Survey,

Week 3 - Data analysis and

presentation and writing

How to make Technical

O Quiz: Week 4 Practice

Ouiz: Assignment 4

Introduction to Research

Week 5: Creativity in research

Week 6- Intellectual property

Week 8- Department specific

Week 4 Feedback :

Week 7- Design of

Experiments

discussions

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Transcripts Book

Download Videos

course work?

Research

Research

How does an NPTEL online

Week 1: Group Discussion on



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Mentor

1 point

1 point

1 point

1 point

Unit 7 - Week 4:

Assignment 4	
The due date for submitting this assignment has passed.	Due on 2020-03-25, 23:59
As per our records you have not submitted this assignment.	
More than one option may be right. Marks are given only if either all or some of the correct options are selected.	ected and none of the incorrect option
The title of a paper is 'Battery design and its impact'. This title	
Identifies the area of research clearly	
Indicates what is unique about the research	
Does not identify the area of the research clearly	
Does not indicate what is unique about the research	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
Does not identify the area of the research clearly	
Does not indicate what is unique about the research	
2) "The furnace demonstrated low heating rate and uniform temperature. This is good for making cookies" Use the previous sentence is:	of the word 'this' in
Ambiguous	
Unambiguous	
Arrogant	
Illegal	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
Ambiguous	
3) In images	O
High magnification implies high resolution	
High magnification does not necessarily imply high resolution	
Low magnification implies high resolution	
High resolution implies low magnification	
No, the answer is incorrect.	
Score: 0 Accepted Answers:	
High magnification does not necessarily imply high resolution	
Abstract of a scientific document is aimed at	
General public	
An audience that has not yet read the paper	
An audience that has read the paper Enabling a short overview of the work	
No, the answer is incorrect. Score: 0	
Accepted Answers: An audience that has not yet read the paper	
Enabling a short overview of the work	
5) Tables are preferred over graphs	
□ Always □ Never	
Only when exact values need to be indicated	
Only when trends in data need to be indicated	
No, the answer is incorrect.	
Score: 0	
Accepted Answers: Only when exact values need to be indicated	
A reasonable pace for presentation is	
1 slide every 10 minutes 1 slide a minute	
5 slides a minute	
_ U Ulidou di Hilliotto	

Accepted Answers: 1 slide a minute

No, the answer is incorrect.

7) In an article, the image of a car engine must

Score: 0

Show the level of detail required for the discussion in the article Have a marker bar indicating scale Be in colour and not in black and white

Be in black and white and not in colour No, the answer is incorrect. Score: 0

Accepted Answers: Show the level of detail required for the discussion in the article

Have a marker bar indicating scale

8) The length of sentences in an article should be such that:

Readers don't have to read it twice to understand Reader must read it twice to understand Readers must not forget how it started by the time the readers reach the end of the sentence

Readers must forget how it started by the time the readers reach the end of the sentence No, the answer is incorrect. Score: 0

Accepted Answers:

9) The length of a document

Readers don't have to read it twice to understand

Readers must not forget how it started by the time the readers reach the end of the sentence

Indicates how much you know Indicates how little you know Does not indicate anything about your knowledge Does not indicate anything about the reader's knowledge

Score: 0 Accepted Answers: Does not indicate anything about your knowledge

No, the answer is incorrect.

Does not indicate anything about the reader's knowledge 10) Strategies one can use in the middle of a document include

 Chronological strategy Spatial strategy

No, the answer is incorrect. Score: 0

Following a variable

Suspense strategy

Accepted Answers: Chronological strategy Spatial strategy Following a variable



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Accepted Answers:

Have good communication skills

Have a line of investigation

Have mastery over specific techniques

Be aware of recent advances in the field

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1 point

Unit 8 - Week 5: Creativity in research

outline	Assignment 5	
an NPTEL online		
rk?	The due date for submitting this assignment has passed. As per our records you have not submitted this assignment. Due on 2020-0	04-01, 23:59 IST
oup Discussion on	One or more options may be correct. Partial marks will be awarded only if some of the correct options are selected and none of the options are selected.	he incorrect
erview of	Creativity can be seen in	1 po
	Theatre	
rature Survey,	Story books	
tills	Paintings	
analysis and	Engineering	
ialysis and	No, the answer is incorrect. Score: 0	
ical	Accepted Answers:	
dwriting	Theatre Character Control of the Con	
	Story books Paintings	
y in research	Engineering	
search Part 1		
search Part 2	2) A bachelor's degree typically means	1 po
earch Part 3	You are specialist in one research area	
ch	There is greater width in the topics you have learned, but less depth	
	You know more and more of less and less	
actice	You gain broad knowledge in an area	
nt 5	No, the answer is incorrect. Score: 0	
	Accepted Answers:	
: search	There is greater width in the topics you have learned, but less depth	
	You gain broad knowledge in an area	
roperty	3) The measure of a successful researcher is that the work of the researcher should be	1 po
	Recognized by peers at an international level	
	Typically published in peer reviewed Journals	
enecific	Mentioned in the campus magazine of the college	
specific	Must be discussed in the Department meeting of the researcher's department	
	No, the answer is incorrect. Score: 0	
	Accepted Answers:	
	Recognized by peers at an international level Typically published in peer reviewed Journals	
	 According to Malcolm Gladwell, based on work by Herbert Simon, the key to success in any field is to work in that field for 	1 po
	☐ 1000 hours	
	2000 hours	
	5000 hours	
	□ 10,000 hours	

Engineering	
2) A bachelor's degree typically means	1 point
You are specialist in one research area	
There is greater width in the topics you have learned, but less depth You know more and more of less and less	
You gain broad knowledge in an area	
No, the answer is incorrect. Score: 0	
Accepted Answers: There is greater width in the topics you have learned, but less depth	
You gain broad knowledge in an area	
3) The measure of a successful researcher is that the work of the researcher should be	1 point
Recognized by peers at an international level	
Typically published in peer reviewed Journals	
Mentioned in the campus magazine of the college Must be discussed in the Department meeting of the researcher's department	
No, the answer is incorrect.	
Score: 0 Accepted Answers:	
Recognized by peers at an international level Typically published in peer reviewed Journals	
4) According to Malcolm Gladwell, based on work by Herbert Simon, the key to success in any field is to work in that field for	1 point
1000 hours	, po
2000 hours	
5000 hours	
No, the answer is incorrect.	
Score: 0 Accepted Answers:	
10,000 hours	
5) Creative people are	1 point
More likely to follow societal restrictions	
Less likely to follow societal restrictions	
More likely to think within the limits of previous work in the area More likely to come up with a surprisingly new solution to a problem	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
Less likely to follow societal restrictions More likely to come up with a surprisingly new solution to a problem	
6) A PhD usually makes you	1 point
A specialist in one narrow area	•
A person who conducts experiments fast	
A person who has a wide knowledge in a wide range of topics A person who makes excellent sketches	
No, the answer is incorrect.	
Score: 0 Accepted Answers:	
A specialist in one narrow area	
7) Good research	1 point
Will definitely result in awards	
Will usually stand the test of time Will never be superseded in that area	
Can be independently repeated by other researchers	
No, the answer is incorrect. Score: 0	
Accepted Answers: Will usually stand the test of time	
Can be independently repeated by other researchers	
8) While testing patients with a new medicine against a virus,	1 point
☐ It is important to do the test without their knowledge so that the results are reliable	
Informed consent has to be obtained before the trial	
The data of the patients can always be freely shared since they are members of the public. Privacy of the patient must be protected	
No, the answer is incorrect.	
Score: 0 Accepted Answers:	
Informed consent has to be obtained before the trial Privacy of the patient must be protected	
9) While submitting a paper with four authors for publication	1 point
	1 point
 It is sufficient if only the first author knows about it, since it will be a pleasant surprise to the other authors It is sufficient if a simple majority of the authors know and agree about the publication submission 	
It is necessary that all four authors know about the submission and agree with it.	
It will be disqualified because one must not publish papers with four authors No, the answer is incorrect.	
Score: 0 Accepted Answers:	
It is necessary that all four authors know about the submission and agree with it.	
10) To become a good researcher, one must usually	1 point
Have good communication skills	
Have mastery over specific techniques	
Have a line of investigation Be aware of recent advances in the field	
No, the answer is incorrect. Score: 0	
OUDIO, V	