Examination 2020 under cluster (Lead College:

Examinations Commencing from 23rd December 2020 to 6th January 2021 and from 7th January 2021 to 20th January 2021

Program: **Institute Level Elective** Curriculum Scheme: Rev2016 Examination: BE Semester VIII

Course Code: ILO8025 and Course Name: PE and CSR

Time: 2 hour Max. Marks: 80

1. Please save this file with file name as per the sample format given below:
File Name: "Date of Examination_Scheme_Program_Semester_Subject Code_QP Set Number"
For example:

QP set number 1 of Engineering Mathematics-I of First Year Semester I for Rev2019 scheme and scheduled on 7/01/2021 has to have the file name as

0701_R19_FE_I_FEC101_QP1

QP set number 1 of first core course of Mechanical Engineering Semester V for Rev2016 scheme and scheduled on 23/12/2020 has to have the file name as

2312_R16_Mech_V_MEC501_QP1

QP set number 3 of Department Level Optional Course of Computer Engineering Semester VI for Rev2012 scheme and scheduled on 3/01/2021 has to have the file name as

$0301_R12_Comp_VI_CSDLO6021_QP3$

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	The inclusive term used to refer to any net benefits produced by an action.
Option A:	ethic of virtue
Option B:	ethic of care
Option C:	Utilitarianism
Option D:	Utility
2.	The market for automobiles is an example of?
Option A:	Monopolistic competition.
Option B:	Duopoly.
Option C:	Differentiated oligopoly.
Option D:	Pure oligopoly.
3.	Rights that all human beings everywhere possess to an equal extent simply by virtue of being human beings is,
Option A:	Right
Option B:	Legal right
Option C:	Moral rights or human rights
Option D:	Characteristic of Rights
4.	The gradual breakdown of ozone gas in the stratosphere above us caused by the release of chlorofluorocarbons (CFCs) into the air.

Option A:	ozone depletion
Option B:	Global warming
Option C:	Pollution
Option D:	Greenhouse gases
opusii 2 :	Crecimouse gases
5.	Which following statement is explain about Negative Rights?
Option A:	Duties of others have to not interfere in certain activities of the person who holds the
o puon 12.	right.
Option B:	Duties of other agents (it is not always clear who) to provide the holder of the right with
	whatever he or she needs to freely pursue his or her interests.
Option C:	Provide a basis for justifying one's actions and for invoking the protection or aid of
	others
Option D:	Are correlated with duties others have toward the person with the right
6.	The undesirable and unintended contamination of the environment by human activity
	such as manufacturing, waste disposal, burning fossil fuels, etc. is called as ?
Option A:	Pollution
Option B:	Resource depletion
Option C:	Greenhouse gases
Option D:	Global warming
7.	Discrimination that is not consciously or deliberately sought, but is brought about by
	stereotypes or as an unintended outcome is called as
Option A:	Intentional
Option B:	Institutional
Option C:	Individual
Option D:	Unintentional
8.	Perfectly competitive markets encourage firms to use resources efficiently to keep
Ontion A.	costs?
Option A:	Low
Option B:	Moderate
Option C:	Zero
Option D:	High
0	Which of the following is not a settlement of Custoinehility?
9. Option A:	Which of the following is not a category of Sustainability?
	Environmental Sustainability Natural Sustainability
Option B:	Natural Sustainability
Option C: Option D:	Social Sustainability Economic Sustainability
Орион D:	Economic Sustainability
10.	Which of the following is a characteristic of monopolistic competition?
Option A:	Few sellers.
Option B:	All of the above are characteristics of monopolistic competition.
Option C:	A differentiated product.
Option D:	Easy entry into and exit from the industry.
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11.	Business people have the skills to solve?
Option A:	All Economic Problems
Option B:	All Social Problem
Option C:	Some Social Problem
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Option D:	All Technical Problem
opiion 2.	
12.	Which of the following is Problem associated with Contractual Theory?
Option A:	Sellers cannot remove all their duties to buyers by getting them to agree to disclaimers
	of responsibility.
Option B:	Safety should not be provided through the market.
Option C:	Assumes consumer and seller meet as equals, but seller has more knowledge even then consumer must not rely on the seller.
Option D:	Assumes makers of products deal directly with consumers but they do not; however manufacturer's advertisements do form a kind of direct promise to consumers.
13.	The Globalization do not facilitate to
Option A:	Removal of control on movement of capital across borders
Option B:	Barriers to trade and investment
Option C:	Improvements in communication
Option D:	Immigration control
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14.	What should be Market Approach to Consumer Protection?
Option A:	Claims safety is a commodity that should be mandated by government.
Option B:	In a market, sellers will provide safety if consumers demand it.
Option C:	In a market, the price of safety and the amount sellers provide will not be determined
	by the costs of providing it and the value consumers place on it
Option D:	Safety should not be provided through the market.
15.	Which of the following is not a Indicator of Discrimination?
Option A:	Proportion of rich and poor at all economic levels.
Option B:	Proportions of minorities and women at lowest economic levels
Option C:	Average benefits minorities and women receive compared to others
Option D:	Proportions of minorities and women at highest economic levels.
16.	Privacy with respect to a person's physical activities is called as?
Option A:	individual privacy
Option B:	personal privacy
Option C:	physical privacy
Option D:	psychological privacy
17.	What is Triple Bottom Line (TBL) ?
Option A:	An accounting tool that looks at the impact on people, planet and profits
Option B:	A management strategy which states all the attention should be on profits
Option C:	An accounting tool that looks at cost, profit and loss.
Option D:	A management strategy which focuses on corporate social responsibility
18.	Which of the following general principle is not followed by corporation while practicing CSR:
Option A:	Companies should support the inclusion of the principles of the India Global Compact
Option B:	Companies should indulge in free marker practices, rejecting any illegal or fraudulent practice and implement effective mechanisms
Option C:	Mangers are not responsible to follow and encourage ethical business practices among employees

Option D:	Companies should encourage and facilitate communication and dialogue with its shareholders, investors, employees, Customers and suppliers
19.	Distributing the benefits and burdens fairly among people is called as,
Option A:	Rule-utilitarianism
Option B:	Rights
Option C:	Justice
Option D:	Utilitarianism
20.	The moral argument for CSR is
Option A:	The corporation is a creation of society and should therefore serve its needs.
Option B:	The corporation is a legal creation and therefore cannot be a moral agent
Option C:	Only Large corporations have the power or resources to address society's problems
Option D:	Business decisions will have social and environmental consequences which will be addressed by government.

Q2	Solve any Two Questions out of Three	10 marks each
A	How Ethics is an integral part of Business, Explain with Ex	ample
В	What are the Ethics of pollution control.	
С	How can the rights of a consumer be defined in a due care with suitable example	theory? Explain

Q3	Solve any Two Questions out of Three 10) marks each
A	Explain in detail Corporate Social Responsibility and Small Enterprises (SMEs) in India.	and Medium
В	Why incorporate CSR into PPP for sustainable development?	
С	What is TBL? How it is work?	

Examination 2020 under cluster 08 (Lead College: PHCET)

Examinations Commencing from 23rd December 2020 to 6th January 2021

Program: **B.E. All Branches**Curriculum Scheme: Rev2016
Examination: BE Semester VIII

Course Code: ILOC 8026 and Course Name: Research Methodology

Time: 2 hours Max. Marks: 80

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	are statements/assumptions made -about the likely outcomes of the problem-
	which may or may not be true.
Option A:	Hypotheses
Option B:	Analytical models
Option C:	Research questions
Option D:	Marketing research problems
2.	Characteristic of research is
Option A:	Empirical Empirical
Option B:	Hypothetical
Option C:	Theoretical
Option D:	Unethical
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3.	Attributes of objects, events or things which can be measured are called
Option A:	Qualitative measure
Option B:	Data
Option C:	Variables
Option D:	Invariables
4.	Inductive logic proceeds from
Option A:	General to General
Option B:	Specific to General
Option C:	General to Specific
Option D:	Specific to Specific
5.	This is not the purpose of review of researches done in related fields of study
Option A:	to know what knowledge already exists
Option B:	to know gaps in knowledge that exists
Option C:	to avoid the replication of knowledge that exists
Option D:	to list the studies in their own research work
6.	A company wants to know what are the problems are faced by employees in the night shift duties. The company is intending to undertake
Option A:	Pure research
Option B:	Applied research
Option C:	Basic research

	Causal research
7.	The process not needed in experimental researches is
Option A:	Reference collection
Option B:	Controlling
Option C:	Observation
Option D:	Manipulation and replication
8.	Fundamental Research is otherwise called
Option A:	Action Research
Option B:	Survey
Option C:	Pilot study
Option D:	Pure Research
9.	Which of the following tasks is not a part of research design?
Option A:	Design the exploratory, descriptive, and/or causal phases of the research.
Option B:	Construct and pretest a study instrument.
Option C:	Formulate the sampling plan
Option D:	Develop hypotheses
10.	Research design is a blue print, outline and
Option A:	Plan
Option B:	System
Option C:	Strategy
Option D:	Guide
11.	Which technique is generally followed when the population is finite?
Option A:	Area sampling technique
Option B:	Purposive sampling technique
Option C:	Systematic sampling technique
	Systematic sampling technique Random sampling technique
Option C: Option D:	Random sampling technique
Option C: Option D:	Random sampling technique In an experiment, the group that does not receive the intervention is called
Option C: Option D:	Random sampling technique In an experiment, the group that does not receive the intervention is called The experimental group
Option C: Option D: 12. Option A: Option B:	Random sampling technique In an experiment, the group that does not receive the intervention is called The experimental group The participant group
Option C: Option D: 12. Option A:	Random sampling technique In an experiment, the group that does not receive the intervention is called The experimental group
Option C: Option D: 12. Option A: Option B: Option C:	Random sampling technique In an experiment, the group that does not receive the intervention is called The experimental group The participant group The control group
Option C: Option D: 12. Option A: Option B: Option C:	Random sampling technique In an experiment, the group that does not receive the intervention is called The experimental group The participant group The control group
Option C: Option D: 12. Option A: Option B: Option C: Option D:	Random sampling technique In an experiment, the group that does not receive the intervention is called The experimental group The participant group The control group The treatment group
Option C: Option D: 12. Option A: Option B: Option C: Option D:	Random sampling technique In an experiment, the group that does not receive the intervention is called The experimental group The participant group The control group The treatment group Questionnaire is a
Option C: Option D: 12. Option A: Option B: Option C: Option D: 13. Option A: Option A: Option C: Option C:	Random sampling technique In an experiment, the group that does not receive the intervention is called The experimental group The participant group The control group The treatment group Questionnaire is a Research method
Option C: Option D: 12. Option A: Option B: Option C: Option D: 13. Option A: Option A:	Random sampling technique In an experiment, the group that does not receive the intervention is called The experimental group The participant group The control group The treatment group Questionnaire is a Research method Measurement technique
Option C: Option D: 12. Option A: Option B: Option C: Option D: 13. Option A: Option A: Option C: Option C:	Random sampling technique In an experiment, the group that does not receive the intervention is called The experimental group The participant group The control group The treatment group Questionnaire is a Research method Measurement technique Tool for data collection Data analysis technique
Option C: Option D: 12. Option A: Option B: Option C: Option D: 13. Option A: Option A: Option C: Option C:	Random sampling technique In an experiment, the group that does not receive the intervention is called The experimental group The participant group The control group The treatment group Questionnaire is a Research method Measurement technique Tool for data collection
Option C: Option D: 12. Option A: Option B: Option C: Option D: 13. Option A: Option A: Option B: Option C: Option D: 14. Option A:	Random sampling technique In an experiment, the group that does not receive the intervention is called The experimental group The participant group The control group The treatment group Questionnaire is a Research method Measurement technique Tool for data collection Data analysis technique A Type 1 error occurs in a situation where: The null hypothesis is accepted when it is in fact true
Option C: Option D: 12. Option A: Option B: Option C: Option D: 13. Option A: Option B: Option C: Option D: 14. Option A: Option A: Option A: Option D:	Random sampling technique In an experiment, the group that does not receive the intervention is called The experimental group The participant group The control group The treatment group Questionnaire is a Research method Measurement technique Tool for data collection Data analysis technique A Type 1 error occurs in a situation where: The null hypothesis is accepted when it is in fact true The null hypothesis is rejected when it is in fact false
Option C: Option D: 12. Option A: Option B: Option C: Option D: 13. Option A: Option B: Option C: Option C: Option D: 14. Option A: Option A: Option A: Option C: Option C: Option C:	Random sampling technique In an experiment, the group that does not receive the intervention is called The experimental group The participant group The control group The treatment group Questionnaire is a Research method Measurement technique Tool for data collection Data analysis technique A Type 1 error occurs in a situation where: The null hypothesis is accepted when it is in fact true The null hypothesis is rejected when it is in fact true The null hypothesis is rejected when it is in fact true
Option C: Option D: 12. Option A: Option B: Option C: Option D: 13. Option A: Option B: Option C: Option D: 14. Option A: Option A: Option A: Option D:	Random sampling technique In an experiment, the group that does not receive the intervention is called The experimental group The participant group The control group The treatment group Questionnaire is a Research method Measurement technique Tool for data collection Data analysis technique A Type 1 error occurs in a situation where: The null hypothesis is accepted when it is in fact true The null hypothesis is rejected when it is in fact false

15.	Which of the following is not a data-collection method?
Option A:	Research questions
Option B:	Unstructured interviewing
Option C:	Postal survey questionnaires
Option D:	Participant observation
16.	When a hypothesis is stated negatively it is called
Option A:	Relational Hypothesis
Option B:	Situational Hypothesis
Option C:	Null Hypothesis
Option D:	Casual Hypothesis
17.	Which of the following statement is wrong regarding inductive generalizations?
Option A:	They are based on observed facts and realistic foundation
Option B:	is scientific in character and some of the important theorems of the physical and
	social sciences have been developed through this method
Option C:	It is helpful in finding out the material truth
Option D:	It is easy, cost effective and time saving method
18.	Developing a researchable question would not involve
Option A:	Considering the time and resources available to you
Option B:	Bearing in mind your technical expertise in the area of research
Option C:	Deciding what statistical software to use
Option D:	Assessing the work involved
19.	Research ethics do not include
Option A:	Integrity
Option B:	Honesty
Option C:	Subjectivity
Option D:	Objectivity
20.	Failure to acknowledge the borrowed material is called
Option A:	Acknowledgement
Option B:	Index
Option C:	Bibliography
Option D:	Plagiarism

Q2.	Solve any Four out of Six 5 marks each
A	What are the problems faced by Researcher
В	Give the Characteristics of Research Explain in detail
С	Explain Qualitative & Quantitative Research
D	What is a Research Design? Explain its Necessity
Е	What are the Characteristics of good hypothesis? Explain type I & type II errors
F	What are the differences between observation and interviewing as methods of data collection?

Q3.	Solve any Four out of Six 5 marks each
A	Define Hypothesis with example
В	Explain Ex post facto Research with example
С	What do you mean by Sampling? What are the types of Sampling
D	Enumerate the different methods of collecting data giving one example each
Е	State the sources of research problem. How a problem is identified?
E	Enumerate the criteria for the selection of a problem
F	"Ethics in research is the need of the hour" Justify the statement

Examination 2020 under cluster __ (Lead College: APSIT)

Examinations Commencing from 23^{rd} December 2020 to 6^{th} January 2021 and from 7^{th} January 2021 to 20^{th} January 2021

Program: ALL

Curriculum Scheme: Rev2016 Examination: FE/SE/TE/BE Semester VIII

Course Code: ILO8024 and Course Name: HUMAN RESOURCE MANAGEMENT

Time: 2 hour Max. Marks: 80

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks. 2 marks each (40 Marks)
1.	Human resource management excludes
Option A:	Motivation
Option B:	Selling
Option C:	Rewards and compensation
Option D:	Recruitment
2.	Human resource Planning is choosing the
Option A:	Right product
Option B:	Right person
Option C:	Right producers
Option D:	Right human behaviour
3.	Maslow's theory of human needs include
Option A:	Responsibility
Option B:	Self-actualization Self-actualization
Option C:	Self-management Self-management
Option D:	Empowerment
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4.	represent basic convictions that "a specific mode of conduct or end state
	of existence is personally or socially preferable to an opposite or converse mode of
	conduct or end-state of existence."
Option A:	Values
Option B:	Attitude
Option C:	Motivation
Option D:	Ethics
5.	is a process by which we organize and interpret sensory impressions
	in order to give meaning to our environment
Option A:	Decision making
Option B:	Negotiation
Option C:	Perception
Option D:	Conflict negotiation
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6.	Which one of the below mentioned functions is the part of the organizational level?
Option A:	Organisational Culture
Option B:	Group Structure
Option C:	Team

Option D:	Group Norms		
7.	A leader should be able to		
Option A:	Take selfish decisions		
Option B:	Explain organisational goals		
Option C:	Sack the employees		
Option D:	Fire the employees		
8.	Group rules are for of the members.		
Option A:	Harassment		
Option B:	Behaviour		
Option C:	Punishment		
Option D:	Sacking		
9.	What is the first step in the appraisal process?		
Option A:	Giving feedback		
Option B:	Defining the job		
Option C:	Administering the appraisal tool		
Option D:	Making plans to provide training		
10			
10.	Power that is based on fear called as		
Option A:	Reward Power		
Option B:	Information Power		
Option C:	Coercive Power		
Option D:	Legitimate Power		
11.	Human Resource Planning is done based on		
Option A:	Market Condition		
Option B:	Financial Condition		
Option C:	Organisational Plan		
Option D:	External Environment		
12.	Which is the least expensive method for recruitments?		
Option A:	Walk - ins, write - ins and talk - ins		
Option B:	Campus placements		
Option C:	Employment exchanges		
Option D:	Consultants		
13.	Development is not related to		
Option A:	Technical aspects		
Option B:	Conceptual		
Option C:	Human skills		
Option D:	Termination		
4.4			
14.	Which one from the following options is challenge in diversity at workplace?		
Option A:	Increase in Productivity		
Option B:	High Performance team building		
Option C:	Conflicts		
Option D:	Increase in Pay		

15.	Which of this is a step in training process		
Option A:	Use of evaluation models		
Option B:	Obstacles in the system		
Option C:	KSA deficiency		
Option D:	Provide proper feedback		
16.	Which among the following will not be included in Business Process		
	Reengineering?		
Option A:	To set the vision & business goals		
Option B:	To dissuade employees from using technology		
Option C:	Establish a competent team		
Option D:	Redesign the process		
17.	Which one is generation Z?		
Option A:	Born Between 2001-2020		
Option B:	Born Between 1965-1981		
Option C:	Born Between 1941-1964		
Option D:	Born Between 1982-2000		
18.	Which conflict occurs within an individual?		
Option A:	Interpersonal		
Option B:	Intra-personal		
Option C:	Intra-Group		
Option D:	Inter Group		
19.	As per the factories Act "CHILD" means a person who has not completed		
	years of age		
Option A:	15		
Option B:	16		
Option C:	17		
Option D:	18		
20			
20.	Shops and Establishment Act applies to all		
Option A:	Cultivate Shops, Restaurants, Hotels, Theatres, Amusement parks etc.		
Option B:	Only Shops		
Option C: Option D:	Only Hotels Only Theatres		

${\bf Q.~2~Solve~any~Two~Questions~out~of~Three}$

10 marks each (20 Marks)

- A) Explain the appraisal process and the methods of appraisal (10)
- B) Explain the recruitment process and the external sources of recruitment in detail. (10)
- C) Explain evolution and functions of HRM (10)

Q. 3 Solve any Two out of Three

10 marks each (20 Marks)

- A) Explain organizational behavior and its determinants. (10)
- B) Define the term 'training and development'. Explain the importance and various inputs required for a training and development program. (10)

- C)
- i) Write short note on TQM. (5)ii) Define Ethics and explain characteristics of ethics (5)

Examination 2020 under cluster __ (Lead College: _____)

Examinations Commencing from 23rd December 2020 to 6th January 2021 and from 7th

January 2021 to 20th January 2021

Program: ALL

Curriculum Scheme: Rev2016 Examination: BE Semester VIII

Course Code: ILO8027 and Course Name: IPR and Patenting

Time: 2-hour Max. Marks: 80

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks		
1.	A is a sign used on products that have a specific geographical origin and possess qualities or a reputation that are due to that origin.		
Option A:	Logo		
Option B:	Geographical Indication (GI)		
Option C:	Trademark		
Option D:	Patents & Copyrights		
2.	A company wishes to ensure that no one else can use their logo should file rights for a		
Option A:	Patents		
Option B:	Copyrights		
Option C:	Trade mark		
Option D:	Industrial design		
3.	A vocalist who wishes to assign the rights to reproduce a video he has made of his concert should go for filing a		
Option A:	Patents		
Option B:	Copyrights		
Option C:	Trade mark		
Option D:	Industrial design		
4.	Aextinguishes all rights of the IP holder.		
Option A:	Grant		
Option B:	Sale		
Option C:	Deal		
Option D:	Infringement		
5.	The industrial design is protected foryears		
Option A:	15		
Option B:	10		
Option C:	5		
Option D:	20		

6.	Patent right is not		
Option A:	Limited period right		
Option B:	Territorial right		
Option C:	Absolute right		
Option D:	Natural right		
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7.	PCT stands for		
Option A:	Patent Certification Treaty		
Option B:	Patent Cooperation Trade		
Option C:	Patent Cooperation Treaty		
Option D:	Patent Copyright Treaty		
8.	E-commerce thing that needs to be considered with respect to IP is		
Option A:	traditional knowledge		
Option B:	Media		
Option C:	Logo		
Option D:	Photos		
0			
9.	TKRC is		
Option A:	Traditional Knowledge Resource Classification		
Option B:	Total Knowledge Resource Classification		
Option C:	Traditional Knowledge Resource Contents		
Option D:	True Knowledge Resource Contents		
10.	What is included in biological resources?		
Option A:	Animals		
Option B:	human genetic material		
Option C:	softwares with Genetic algorithms		
Option D:	Designs Designs		
Орноп В.	Designs		
11.	What protects the intellectual property created by inventors?		
Option A:	Copyright		
Option B:	geographical indications		
Option C:	Patents		
Option D:	registered designs		
12.	Is a patent granted in India valid in any other country?		
Option A:	Yes		
Option B:	only in signatory countries to TRIPS		
Option C:	No		
Option D:	only to neighboring countries		
13.	Which of the following is not patentable according to Indian Patent Act 1970?		

Option A:	Pin		
Option B:	Chair		
Option C:	washing machine		
Option D:	a new method of horticulture		
14.	Where is the Japan Patent Office located?		
Option A:	Tokyo		
Option B:	Kyoto		
Option C:	Osaka		
Option D:	Nara		
15.	means a person who in law represents the estate of a deceased person;		
Option A:	Person		
Option B:	Patentee		
Option C:	legal representative		
Option D:	person interested		
16.	means an application for patent made in accordance with the Patent		
	Cooperation Treaty.		
Option A:	patent of addition		
Option B:	Patent		
Option C:	international application		
Option D:	new invention		
17.	means trespass on an intellectual property.		
Option A:	Enforcement		
Option B:	Licensing		
Option C:	Infringement		
Option C:	Assignment		
Option D.	Assignment		
18.	IPC in patenting means		
Option A:	Indian Patent Classification		
Option B:	International Panel Code		
Option C:	International Patent Classification		
Option D:	International Postal Code		
1			
19.	In compulsory license, the right of the licensee is		
Option A:	Exclusive license		
Option B:	Non-exclusive		
Option C:	Assignable		
Option D:	non-assignable		
20.	The Indian Patent Act was established in		
Option A:	1790		

Option B:	1947
Option C:	1970
Option D:	2020

Q2.	Solve any Four out of Six 5 marks each	
A	Describe different types of Intellectual Property.	
В	What are the impacts of IP Rights?	
С	Enumerate the procedure to register the copyright.	
D	Explain Paris Convention Treaty.	
Е	What are challenges to Intellectual Property in Traditional Knowledge?	
F	Explain in brief about Intellectual Property and Digital Economy.	

Q3.	Solve any Four out of Six 5 marks each	
A	Explain the contents of complete specification for patent application.	
В	Discuss the major steps involved to register a patent.	
С	Write a short note on rights and liabilities of patentees.	
D	Write a short note on US Scenario of Patent Rules	
Е	List and explain types of claims.	
F	Describe non-patentable inventions with example.	

Program: BE (ALL BRANCHES) Curriculum Scheme: Rev2020 Examination: BESemesterVIII

Course Code:ILOC8021and Course Name: Project Management

Time: 2 hour Max. Marks: 80

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks		
1.	Which of the following is the most important element of Project Management		
1.	Plan that is useful in Planning process:		
Option A:	Risk Management activities		
Option B:	Quality Assurance activities		
Option C:	Activity Resource requirements		
Option D:	Budget Control activities		
2.	CPM is an acronym for		
Option A:	Control Path Method		
Option B:	Critical Path Method		
Option C:	Cohesion Path Method		
Option D:	Control Path Model		
3.	A Project with a total funding of \$100,000 finished with a BAC value of \$95,000.		
	What term can BEST describe the difference of \$5,000?		
Option A:	Cost Variance		
Option B:	Management Overhead		
Option C:	Management Contingency Reserve		
Option D:	Schedule Variance		
4.	Activity Definition is typically performed by which of the following:		
Option A:	Project Manager who created the WBS		
Option B:	Project Team Members responsible for the work package		
Option C:	Project Officer		
Option D:	Project Stakeholder		
5.	Expected risks in a project is represented in a tabular form by		
Option A:	Risk Table		
Option B:	Assessment Table		
Option C:	Time Table		
Option D:	Round Table		
6.	A project has a 60% chance of a \$100,000 profit and a 40 percent of a \$100,000		
	loss. The Expected Monetary Value for the project is:		
Option A:	\$100,000 profit		
Option B:	\$60,000 loss		
Option C:	\$ 20,000 profit		
Option D:	\$40,000 loss		

7.	The time taken to break even or pay back the initial investment is called as		
Option A:	Back period.		
Option B:	Payback period.		
Option C:			
Option C:	Cash back period.		
Option D.	Rate of Return.		
8.	The expenditure and income taken place in a project is indicated by		
Option A:	Cash flow forecast.		
Option B:	Cost analysis.		
Option C:	Fund flow.		
Option D:	Technical forecast.		
1			
9.	The method which is carried out to calculate the earliest dates on which each activity may be started and completed is		
Option A:	Backward pass		
Option B:	Forward pass		
Option C:	No pass.		
Option D:	Increasing pass.		
•			
10.	The shortest time in which we could expect to complete the activity, barring outright miracles is called as		
Option A:	Optimistic Time		
Option B:	Pessimistic Time		
Option C:	Most Likely Time		
Option D:	Shortest Time		
1			
11.	Which of these is not one of the constraints of a project?		
Option A:	Scope		
Option B:	Team		
Option C:	Resources		
Option D:	Budget		
opusii 2 :			
12.	Which is not one of the stages of Project Management Lifecycle?		
Option A:	Definition and Conceptualization		
Option B:	Management and Measurement		
Option C:	Planning and Budgeting		
Option D:	Execution and Control		
option b.	Execution and Control		
13.	Activities A, B, and C are the immediate predecessors for Y activity. If the		
13.	earliest finish times for the three activities are 12, 15, and 10, then the earliest		
	start time for Y will be		
Option A:	10		
Option B:	15		
Option C:	12		
Option C. Option D:	100		
<u> </u>	100		
14.	The critical path is referred to as the		
Option A:	Most direct path from the beginning node to the ending node		

Option B:	Shortest path in terms of time		
Option C:	Longest path in terms of time		
Option D:	Path with the largest amount of slack time		
1			
15.	15. A schedule activity may begin 10 days before the predecessor activity fir		
	This is an example of:		
Option A:	Finish-to-Start		
Option B:	Start-to-Finish		
Option C:	Start-to-Start		
Option D:	Finish-to-Finish		
1			
16.	Resource requirement in project becomes constant while the project is in its what		
	progress stage		
Option A:	40 to 55%		
Option B:	55 to 70%		
Option C:	70 to 80%		
Option D:	80 to 95%		
1			
17.	What limits the options of the project team?		
Option A:	Constraints		
Option B:	Assumptions		
Option C:	Technology		
Option D:	Deliverables		
•			
18.	The difference between the cumulative earned value ofthe work performed and		
	the cumulative actual cost is known as		
Option A:	Cost performance index		
Option B:	Cost variance		
Option C:	Budgeted costs		
Option D:	Cost quality index		
19.	Which of the following does NOT generate changes to the Project documents:		
Option A:	Define Activities		
Option B:	Sequence Activities		
Option C:	Estimate Activity Resources		
Option D:	Estimate Activity Durations		
20.	If the Earned Value is equal to Actual Cost, it means		
Option A:	Project is on budget and on schedule		
Option B:	Schedule variance index is 1		
Option C:	There is no schedule variance		
Option D:	There is no cost variance		

Q2	Solve any Two Questions out of three.	5 marks each
A	I. Compare AOA and AON	
	II. Compare internal risk and external risk	•
	III. State the limitations of Gantt chart	
В	Solve any One	10 marks each
	I. What is Work breakdown structure. Dr	aw and explain the WBS for hospital
	management system.	
	II. What is project crashing. Explain with	the help of suitable example.

Q3	Solve any Two Questions out of Three 5 marks each
A	I. List and explain the phases of project life
	II. Why leveling of resources is preferred to large fluctuations, justify?
	III. List the steps involved in terminating a project.
В	Solve any One 10 marks each
	I. Explain the terms qualitative risk and quantative risk. List and explain the
	risk response strategies.
	II. What are the knowledge areas and process groups in Project Management
	as per PMI?

Examination 2020 under cluster __ (Lead College: _____)

Examinations Commencing from 23rd December 2020 to 6th January 2021 and from 7th

January 2021 to 20th January 2021

Program: **All** Curriculum Scheme: Rev2016

Examination: BE Semester VIII
Course Code: ILO8022 Course Name: Finance management
Time: 2 hour Max. Marks: 80

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	are a long-term promissory notes with maturities ranging from 5 to 30 years.
Option A:	Notes
Option B:	Shares
Option C:	Bonds
Option D:	Commercial Papers
1	•
2.	Which of the following is not the Financial Services in Indian Financial System?
Option A:	Local Bankers
Option B:	Investment Banking
Option C:	Credit Rating
Option D:	Asset Management
3.	The regulator for Primary and secondary market is
Option A:	IRDA
Option B:	SEBI
Option C:	RBI
Option D:	CRISIL
4.	With a well-diversified portfolio, an investor can reduce
Option A:	Unsystematic risk
Option B:	systematic risk
Option C:	Market Risk
Option D:	finance risk
5.	A statistical measure of the degree to which two variables (e.g., securities'
	returns) move together.
Option A:	Certainty equivalent
Option B:	Covariance
Option C:	Variance
Option D:	Coefficient of variation
6.	How you can turn a portfolio having two risky securities into risk less if
Option A:	The securities are completely negatively correlated
Option B:	The securities are completely positively correlated
Option C:	If the correlation ranges between zero and one

Option D:	If the correlation ranges between zero and two
7.	When the concept of ratio is defined in respected to the items shown in the
	financial statements, it is termed as
Option A:	Accounting ratio
Option B:	Financial ratio
Option C:	Costing ratio
Option D:	leverage Ratio
8.	When the concept of ratio is defined in respected to the items shown in the
	financial statements, it is termed as
Option A:	Accounting ratio
Option B:	Financial ratio
Option C:	Costing ratio
Option D:	leverage Ratio
•	
9.	What is the value of the firm usually based on
Option A:	The value of debt and equity.
Option B:	The value of equity.
Option C:	The value of debt.
Option D:	The value of assets plus liabilities.
1	
10.	The assets that can be converted into cash within a short period (i.e.1 year or less)
	are known as
Option A:	Current assets
Option B:	Fixed assets
Option C:	Intangible assets
Option D:	Investments
- F	
11.	The assets that can be converted into cash within a short period (i.e.1 year or less)
	are known as
Option A:	Current assets
Option B:	Fixed assets
Option C:	Intangible assets
Option D:	Investments
12.	The use of NPV rule in investment decisions require information about –
Option A:	Profit
Option B:	Risk
Option C:	Time value of money
Option D:	Cash flows
13.	Which among the following is not a current liability?
Option A:	Equity Shares
Option B:	Interest payable
Option C:	Accrued Expenses
Option D:	Accounts Payable
	, in the second
14.	The XYZ purchases a new equipment. The selected data is given below: Cost of
	equipment: Rs 25,000, Useful life of equipment: 5 years, Tax rate: 30%. If

	equipment is depreciated using straight line method, what is the depreciation tax
	benefit associated with the new equipment?
Option A:	Rs 35000
Option B:	Rs 1500
Option C:	Rs 7500
Option D:	Rs 5000
15.	Gross Working Capital is the capital invested in
Option A:	Total Assets
Option B:	Total Assets minus Total Liabilities
Option C:	Total Current Assets
Option D:	Current Assets minus Current Liabilities
16.	In approach, the capital structure decision is relevant to the
	valuation of the firm.
Option A:	Net income
Option B:	Net operating income
Option C:	Traditional
Option D:	Miller and Modigliani
1	
17.	Under the lease agreement, the lessee gets the right to
Option A:	Share profits earned by the lessor
Option B:	Participate in the management of the organization
Option C:	Use the asset for a specified period
Option D:	Sell the assets
Passes	
18.	What assumptions have to consider to approach the Net operating income to
	valuation?
Option A:	that debt and equity levels remain unchanged.
Option B:	that interest expense and taxes are included in the calculation
Option C:	that dividends increase at a constant rate.
Option D:	that ko remains constant regardless of changes in leverage.
•	
19.	If a firm has low fixed costs relative to all other firms in the same industry, a
	large change in sales volume (either up or down) would have:
Option A:	a smaller change in EBIT for the firm versus the other firms.
Option B:	no effect in any way on the firms as volume does not effect fixed costs.
Option C:	a decreasing effect on the cyclical nature of the business.
Option D:	a larger change in EBIT for the firm versus the other firms.
•	
20.	Which of the following are theories for dividend relevance?
Option A:	Walter's Model
Option B:	MM Approach
Option C:	Game theory
Option D:	Market Value theory
Option D.	1 Andrew Control of the Control of t

Q2	Solve any Four out of Six 5 marks each
A	What functions are performed by the Reserve Bank of India?
В	A 12 - payment annuity of Rs.20,000 will begin 8 years hence. (The first payment

	occurs at the end of 8 years). What is the present value of this annuity if the
	discount rate is 14 percent?
С	What are the Sources of Short Term Financing?
D	Examine critically "Debentures" as a source of Corporate Finance
Е	How to calculate discounted payback period for a project? (assume suitable data)
F	Discuss traditional approach of capital structure design

Q3	Solve any Four out of Six 5 marks each
A	State and illustrate different financial instruments
В	What are the risk associated with business and how are they measured?
С	What is the importance of Financial Ratio Analysis?
D	Discuss factor affecting working capital needs of an entity
Е	Discuss Modigliani-Miller (MM) approach for capital structure
F	Explain the Factors determining Dividend Policy.

Examination 2020 under cluster 8 (Lead College: PHCET)Examinations Commencing from 23rd December 2020 to 6th January 2021 and from 7th January 2021 to 20th January 2021

Program: All Branch Curriculum Scheme: Rev 2016 Examination: BE Semester VIII

Course Code: ILO8023 and Course Name: Entrepreneurship Development and Management Time: 2 hour Max. Marks: 80

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	MUDRA stands for
Option A:	Metropolitan and Urban Development Regulatory Authority
Option B:	A scheme under Ministry of AYUSH
Option C:	Micro Units Development and Refinance Agency
Option D:	Macro Units Development and Refinance Agency
2.	What is Mahila Vikas Nidhi?
Option A:	It offers developmental assistance for pursuit of income generating activities to women
Option B:	housing scheme for women
Option C:	subsidized gas cylinder
Option D:	Subsidy scheme for women
3.	Enterprise is classified as medium if
Option A:	Annual turnover not more than 15cr
Option B:	Annual turnover not more than 250cr
Option C:	Annual turnover not more than 25cr
Option D:	Annual turnover not more than 50cr
4	Mhatia CVV
4.	What is CVY?
Option A:	Coir Vikas Yojana
Option B:	Cottage Vikas Yojana
Option C:	Cotton Vikas Yojana
Option D:	Communication Vikas Yojana
5.	What is purpose of National Manufacturing Competitiveness Programme
Option A:	to support the SMEs to get loan
Option B:	to support the SMEs to get market
Option C:	to support the SMEs to get land
Option D:	to support the SMEs in their endeavor to become competitive
6.	IPR stands for
Option A:	Intellectual Property Rights
Option B:	Individual Property Rights
Option C:	Indian Property Rights

Option D:	Institutional property rights
орион Б.	
7.	One of the disadvantages of a franchise business for a franchisee is,
Option A:	Lack of market availability
Option B:	Lack of independence.
Option C:	Lack of training
Option D:	Lack of brand identity.
option 2.	,
8.	In PESTEL analysis, 'P' stands for:
Option A:	political
Option B:	population
Option C:	people
Option D:	profit
9.	Question Marks in BCG matrix represents,
Option A:	High Growth, Low Market Share
Option B:	Low Growth, Low Market Share
Option C:	Low Growth, High Market Share
Option D:	High Growth, High Market Share
10.	A good Business plan
Option A:	Predict the future.
Option B:	Predict the demand.
Option C:	Can attract the investors.
Option D:	Guarantee profit.
11.	When the companies mutually agreed to become partners in fairly & friendly way to run
Option A:	the business, then it is called as, collaboration
Option B:	franchise
Option C:	acquisition
Option D:	merger
Орион В.	in organization and the control of t
12.	Document that can convince the reader that the business can produce enough revenue
12.	to make a satisfactory profit and therefore attractive as an investment opportunity is
	called as,
Option A:	Future plan
Option B:	Profit-loss statement
Option C:	Balance statement
Option D:	Business plan
13.	Which of the following is NOT the example of DDD project?
	Which of the following is NOT the example of PPP project? Mumbai Metro
Option A: Option B:	Sister Nivedita Bridge in Kolkata
Option C:	Underground car parking system in Kolkata
Option C:	Ola Travelling system
Option D.	Ola Havelling System
14.	Which of the following questions are NOT answered by a business plan?
Option A:	Where am I now?
Option B:	Where am I going?
Option C:	How will I get there?
opuon C.	

Option D:	Why should I do this business?
Option D.	Willy should i do this business:
15.	Who is appointed as a chairperson of the Mission Directorate (Executive Committee) level of National Skill Development Mission.
Option A:	Secretary, MSDE
Option B:	Minister, MSDE
Option C:	Secretary, Shiksha Manatralaya
Option D:	Minister, Shiksha Mantralaya
16.	Which one of the following is NOT the category of clients in MUDRA
0 1: 1	Bank?
Option A:	Shishu
Option B:	Kishor
Option C:	Tarun
Option D:	Vruddha
17.	What is the process of one company taking over by the other called?
	What is the process of one company taking over by the other called?
Option A: Option B:	Merger
	Acquisition
Option C:	Going public Write off
Option D:	Write on
18.	What is Vertical Merger?
Option A:	takes a company a step closer towards monopoly by eliminating a
option 71.	competitor
Option B:	combination of two entities at different stages of the industrial or
	production process
Option C:	the shareholders of one entity receives cash instead of shares in the
	merged entity
Option D:	merger between two entities in unrelated industries
19.	refers to the successful selling of a product or service in a
	specific market.
Option A:	Market penetration
Option B:	Advertisement
Option C:	outreach
Option D:	consolidation
20	M/L at its NOT as IDO
20.	What is NOT an IPO
Option A:	An initial public offering (IPO) refers to the process of offering shares of a
Ontion P:	private corporation to the public in a new stock issuance.
Option B:	Initial public offering or stock market launch is a type of public offering in
	which shares of a company are sold to institutional investors and usually also retail investors.
Option C:	An initial public offering (IPO) refers to the process of offering shares of a
Option C.	private corporation to the public in a new stock issuance.
Option D:	IPO is transferring company to charitable trust
<u> Ծ</u> րոսու D .	ii O is italisielillig company to chamable trust

Q2	Solve any Four out of Six. 5 marks each
A	Discuss challenges faced by MSMEs.
В	Explain the various forms of business ownership.
С	Explain new product development process.
D	Explain MSME with respect to following points: 1) The industries that come under MSME, 2) Definitions of micro, small and medium enterprises In accordance with the provision of Micro, Small & Medium Enterprises Development (MSMED) Act, 2006, 3) benefits of MSME registration.
Е	Explain PMEGP with respect to the following points: 1) It's objectives, 2) Eligibility criteria for PMEGP, 3) It's features
F	Explain the small business life cycle in detail.

Q3.	Solve any Four out of Six. 5 marks each
A	Discuss various funding schemes for women entrepreneurs
В	Explain marketing schemes for MSMEs
С	What do you mean by MSME?
D	Explain the importance of business plan for new business.
Е	What are the various sources of a finance for new business & explain the importance of capital to entrepreneurship.
F	Explain supply chain management.

Examination 2020 under cluster __(Lead College: ____)

Examinations Commencing from 23rd December 2020 to 6th January 2021 and from 7th January 2021

to 20th January 2021

Program: ALL

Curriculum Scheme: Rev2016 Examination: BESemester: VIII

Course Code: ILO8029and Course Name: Environmental management Time: 2 hour Max. Marks: 80

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	Abiotic environment does not include
Option A:	Soil
Option B:	Water
Option C:	Air
Option D:	Plant
2.	A relatively dense layer of band which is found in the thermosphere is known as?
Option A:	Troposphere
Option B:	Mesosphere
Option C:	Stratosphere
Option D:	Ionosphere
3.	The word environment is derived from French word
Option A:	Environner
Option B:	Environnering
Option C:	E-Environner
Option D:	Envo
4.	Sunder LalBahuguna is famous for
Option A:	Narmada BachaoAndolan
Option B:	TehriBachoAndolan
Option C:	Ganga BachoAndolan
Option D:	Jungle BachoAndolan
5.	Which of the following conceptual components of the environment are effective
	transporters of matter?
Option A:	Hydrosphere and lithosphere
Option B:	Atmosphere and lithosphere
Option C:	Atmosphere and hydrosphere
Option D:	Lithosphere and biosphere
6.	Acid rain can be prevented by

Option A:	Increasing the emission of SO ₂ and NO ₂
Option B:	Decreasing the emission of SO ₂ and NO ₂
Option C:	Increasing the emission of HCL and Phosphate
Option D:	Decreasing the emission of HCL and Phosphate
Орион В.	Decreusing the emission of free and r nosphate
7.	To maintain ecological balance and regulate the population size of different
/.	animals, this is useful
Option A:	Sun chain
Option B:	Wind chain
Option C:	Food chain
Option C. Option D:	Grass chain
Option D.	Orass chain
8.	The tropical grasslands in Africa with tall grasses scattered with shrubs or stunted trees are called
Option A:	Savanas
Option B:	Pampas
Option C:	Steppes
Option D:	Prairies
9.	Among the ecosystem mentioned below , where one can find maximum biodiversity
Option A:	Mangroves
Option B:	Desert
Option C:	Coral Reefs
Option D:	Alpine meadows
-	
10.	Which of the following helped in the saving of trees?
Option A:	Pouring of water
Option B:	Developing of chemical manuals
Option C:	Use of modern agriculture
Option D:	Development of iron and steel
•	•
11.	Which of the following model satisfies four conditions - Consistently satisfactory, Sustainable economic performance, Ethical actions and Behaviour.
Option A:	Spiral Model
Option B:	Corporate Citizenship Model
Option C:	Corporate Civil Model
Option D:	Spiral Model
1	
12.	Supplying socially harmless products, Adopt fair pricing and Provide good service after sales are responsibilities towards -
Option A:	Consumer
Option B:	Seller
Option C:	Dealer
Option C:	Manufacturer
Option D.	1/1dilididotatol
13.	Which is not a decided component amongst the following to maintain public

	health and safety to ensure quality of total environment ?
Option A:	Water
Option B:	Air
Option C:	Junk food
Option D:	Radiation
option B.	- Tanada da
14.	CER stands for -
Option A:	Corporate Environmental Responsibility
Option B:	Complete Environmental Responsibility
Option C:	Corporate Energy Responsibility
Option D:	Corporate Environmental Response
15.	The term 'Municipal Solid Waste' is used to describe which kind of solid waste?
Option A:	Non toxic
Option B:	Toxic
Option C:	Non hazardous
Option D:	Hazardous
16.	ISO – 14001 gives stress on
Option A:	Plan – Do -check -Act
Option B:	Environmental protection
Option C:	Prevention rather than detection
Option D:	Proceed-Do-correct-Act
17.	What is not covered in the ISO-14000?
Option A:	Adoption of environmental safety guideline
Option B:	Energy audit in Industry
Option C:	Adoption of clean environment
Option D:	Adoption of environmental management system in industry or organization
1	
18.	Name the Ministry which deals with environment related issues
Option A:	Ministry of Water Resources
Option B:	Ministry of Forest
Option C:	Ministry of Environment, Forests and Climate change (MoEFCC)
Option D:	Ministry of Agriculture
_	
19.	Under Act, Rules relative to various aspects of management of hazardous chemicals, wastes. have been notified.
Option A:	Water Act (1974)
Option B:	Air Act (1981)
Option C:	Environment Protection Act (1986)
Option D:	Biodiversity Act (2002)
-	
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20.	of the Constitution of India directs the State to protect and improve the environment and safeguard wildlife and forests.
Option A:	Article 51A
Option B:	Article 58A
Option C:	Article 1A
Option D:	Article 48A

Q2	Solve any Four out of Six (Total 20Marks)
A	What are different environmental issues relevant to India
В	State the various carrier opportunities in Environmental Management
С	Describe any TWO types of Ecosystems
D	What is relationship between Food chain and Food Web
Е	What is an EMS certification all about.
F	Give a brief account of Air (P and CP Act)
Q3.	Solve any Two Questions out of Three (Total 20 Marks)
A	Explain what is meant by hazardous waste and how it can be dealt with.
В	Explain the role of environment management and total quality management
	to achieve total quality environmental management
C	Explain some of the common sources of water pollutants and their effects on
	humans, plants and animals.

Examination 2020 under Cluster 06

(Lead College: Vidyavardhini's College of Engg Tech)

Examinations Commencing from 23rd December 2020 to 6th January 2021

Program: **Electronics Engineering**Curriculum Scheme: Rev 2016
Examination: BE Semester VIII

Course Code: ELX801 and Course Name: Internet of Things

Time: 2 hour Max. Marks: 80

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	Smart irrigation system is an example of
Option A:	IoT level-1
Option B:	IoT level-2
Option C:	IoT level-3
Option D:	IoT level-4
2.	Details of virtual entities in design of IoT systems are mentioned in:
Option A:	Structural model specification
Option B:	Domain model specification
Option C:	Functional view specification
Option D:	Operational view specification
3.	Which of the following is not a step in IoT system design methodology?
Option A:	Process specification
Option B:	Domain model specification
Option C:	Structural model specification
Option D:	Functional view specification
4.	Online Transaction Processing (OLTP) is used in
Option A:	Internet of automatic chocolate vending machines
Option B:	Internet of ATMs
Option C:	Internet of RFIDs
Option D:	Internet of streetlights
5.	in IoT as one of the key characteristics, devices have different
	hardware
Option A:	Sensors
Option B:	Heterogeneity
Option C:	Security
Option D:	Connectivity
6.	What is the Data rate of Ethernet (802.3)?
Option A:	10Mb/s to 40 Gb/s
Option B:	2.5GHz to 5 Ghz
Option C:	60Ghz
Option D:	1.5 Mb/s to 1 Gb/s

7.	Which of the following is not the Characteristics of IoT?
Option A:	Traffic System
Option B:	Self-Configuring
Option C:	Unique Identity
Option D:	Interoperable communication protocols
option D.	Interoperate communication protocols
8.	Logical Design of IoT does not have
Option A:	IoT functional Blocks
Option B:	IoT communication Model
Option C:	IoT communication API"s
Option D:	Big Data Analytics
1	
9.	Which Protocol defined as a Low Power Lossy Network (LLN)?
Option A:	IPv4
Option B:	IPv6(RPL)
Option C:	IPv2
Option D:	IPv8
•	
10.	CoRE stands for
Option A:	Constrained RESTful Environment
Option B:	Consistent RESTful Environment
Option C:	Commercial Reliable Event
Option D:	Constrained Reliable Environment
11.	XMPP
Option A:	Supports QoS
Option A: Option B:	Supports QoS Does not support QoS
Option A: Option B: Option C:	Supports QoS Does not support QoS Has end to end encryption
Option A: Option B:	Supports QoS Does not support QoS
Option A: Option B: Option C: Option D:	Supports QoS Does not support QoS Has end to end encryption Low Overhead
Option A: Option B: Option C: Option D:	Supports QoS Does not support QoS Has end to end encryption Low Overhead Websocket API has
Option A: Option B: Option C: Option D: 12. Option A:	Supports QoS Does not support QoS Has end to end encryption Low Overhead Websocket API has Low connection Latency ,TCP based protocol
Option A: Option B: Option C: Option D: 12. Option A: Option B:	Supports QoS Does not support QoS Has end to end encryption Low Overhead Websocket API has Low connection Latency ,TCP based protocol High connection Latency, big header size
Option A: Option B: Option C: Option D: 12. Option A: Option B: Option C:	Supports QoS Does not support QoS Has end to end encryption Low Overhead Websocket API has Low connection Latency ,TCP based protocol High connection Latency, big header size Not used in Real time application
Option A: Option B: Option C: Option D: 12. Option A: Option B:	Supports QoS Does not support QoS Has end to end encryption Low Overhead Websocket API has Low connection Latency ,TCP based protocol High connection Latency, big header size
Option A: Option B: Option C: Option D: 12. Option A: Option B: Option C: Option D:	Supports QoS Does not support QoS Has end to end encryption Low Overhead Websocket API has Low connection Latency ,TCP based protocol High connection Latency, big header size Not used in Real time application Big Header Size ,UDP based
Option A: Option B: Option C: Option D: 12. Option A: Option A: Option B: Option C: Option D:	Supports QoS Does not support QoS Has end to end encryption Low Overhead Websocket API has Low connection Latency ,TCP based protocol High connection Latency, big header size Not used in Real time application Big Header Size ,UDP based What is the initial step of the IoT design methodology?
Option A: Option B: Option C: Option D: 12. Option A: Option B: Option C: Option D: 13. Option A:	Supports QoS Does not support QoS Has end to end encryption Low Overhead Websocket API has Low connection Latency ,TCP based protocol High connection Latency, big header size Not used in Real time application Big Header Size ,UDP based What is the initial step of the IoT design methodology? Process Specification
Option A: Option B: Option C: Option D: 12. Option A: Option B: Option C: Option D: 13. Option A: Option A: Option A:	Supports QoS Does not support QoS Has end to end encryption Low Overhead Websocket API has Low connection Latency ,TCP based protocol High connection Latency, big header size Not used in Real time application Big Header Size ,UDP based What is the initial step of the IoT design methodology? Process Specification Information Model Specification
Option A: Option B: Option C: Option D: 12. Option A: Option B: Option C: Option D: 13. Option A: Option A: Option C: Option C: Option C:	Supports QoS Does not support QoS Has end to end encryption Low Overhead Websocket API has Low connection Latency ,TCP based protocol High connection Latency, big header size Not used in Real time application Big Header Size ,UDP based What is the initial step of the IoT design methodology? Process Specification Information Model Specification Purpose & Requirements Specification
Option A: Option B: Option C: Option D: 12. Option A: Option B: Option C: Option D: 13. Option A: Option A: Option A:	Supports QoS Does not support QoS Has end to end encryption Low Overhead Websocket API has Low connection Latency ,TCP based protocol High connection Latency, big header size Not used in Real time application Big Header Size ,UDP based What is the initial step of the IoT design methodology? Process Specification Information Model Specification
Option A: Option B: Option C: Option D: 12. Option A: Option B: Option C: Option D: 13. Option A: Option B: Option C: Option C: Option D:	Supports QoS Does not support QoS Has end to end encryption Low Overhead Websocket API has Low connection Latency ,TCP based protocol High connection Latency, big header size Not used in Real time application Big Header Size ,UDP based What is the initial step of the IoT design methodology? Process Specification Information Model Specification Purpose & Requirements Specification IOT Level Specification
Option A: Option B: Option C: Option D: 12. Option A: Option B: Option C: Option D: 13. Option A: Option B: Option C: Option D: 14.	Supports QoS Does not support QoS Has end to end encryption Low Overhead Websocket API has Low connection Latency, TCP based protocol High connection Latency, big header size Not used in Real time application Big Header Size, UDP based What is the initial step of the IoT design methodology? Process Specification Information Model Specification Purpose & Requirements Specification IOT Level Specification What is done in the Process Model Specification?
Option A: Option B: Option C: Option D: 12. Option A: Option B: Option C: Option D: 13. Option A: Option B: Option C: Option D: 14. Option A:	Supports QoS Does not support QoS Has end to end encryption Low Overhead Websocket API has Low connection Latency ,TCP based protocol High connection Latency, big header size Not used in Real time application Big Header Size ,UDP based What is the initial step of the IoT design methodology? Process Specification Information Model Specification Purpose & Requirements Specification IOT Level Specification What is done in the Process Model Specification? Define the use cases based on inputs
Option A: Option B: Option C: Option D: 12. Option A: Option B: Option C: Option D: 13. Option A: Option B: Option C: Option D: 14. Option A: Option A: Option B:	Supports QoS Does not support QoS Has end to end encryption Low Overhead Websocket API has Low connection Latency ,TCP based protocol High connection Latency, big header size Not used in Real time application Big Header Size ,UDP based What is the initial step of the IoT design methodology? Process Specification Information Model Specification Purpose & Requirements Specification IOT Level Specification What is done in the Process Model Specification? Define the use cases based on inputs Define the IoT level for the system
Option A: Option B: Option C: Option D: 12. Option A: Option B: Option C: Option D: 13. Option A: Option B: Option C: Option C: Option C: Option D:	Supports QoS Does not support QoS Has end to end encryption Low Overhead Websocket API has Low connection Latency ,TCP based protocol High connection Latency, big header size Not used in Real time application Big Header Size ,UDP based What is the initial step of the IoT design methodology? Process Specification Information Model Specification Purpose & Requirements Specification IOT Level Specification What is done in the Process Model Specification? Define the use cases based on inputs Define the IoT level for the system Map IoT Level to Functional Group
Option A: Option B: Option C: Option D: 12. Option A: Option B: Option C: Option D: 13. Option A: Option B: Option C: Option D: 14. Option A: Option A: Option B:	Supports QoS Does not support QoS Has end to end encryption Low Overhead Websocket API has Low connection Latency ,TCP based protocol High connection Latency, big header size Not used in Real time application Big Header Size ,UDP based What is the initial step of the IoT design methodology? Process Specification Information Model Specification Purpose & Requirements Specification IOT Level Specification What is done in the Process Model Specification? Define the use cases based on inputs Define the IoT level for the system
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	Analytics.
Option A:	XML
Option B:	Java
Option C:	Python
Option D:	HiveQL
16.	Statistical Analysis like finding peak, minima, variance, probalities and statistical
	comes under Analytics.
Option A:	Event Analytics
Option B:	Prescriptive Analytics
Option C:	Descriptive Analytics
Option D:	Diagnostics Analytics
17.	Name the Architecture set used in Rpi
Option A:	CISC
Option B:	RISC
Option C:	MIPS
Option D:	RISC or CISC
18.	WASN stands for
Option A:	Wireless and sensor networks
Option B:	Wired and sensor networks
Option C:	Wireless ad-hoc sensor networks
Option D:	Wireless/Wired and sensor networks
19.	Which of these is the most appropriate technology satisfying the following
	statement" provides transparent networking with support for zero configuration
	networking and automatic discovery of devices?
Option A:	UPnP
Option B:	Zigbee
Option C:	LAN
Option D:	IP
20.	Net metering depends upon
Option A:	Energy consumed by the consumers and energy generated by the grid
Option B:	Energy consumed by the consumers and energy supplied back to the grid
Option C:	Energy consumed by the consumers
Option D:	Energy generated by the grid

Q2.	Solve any Two Questions out of Three 10 marks each
A	What does constrained environment mean for IoT /M2M? Give the features
Λ	of CoAP Protocol.
В	Compare IoT level 3 and IoT level 4 with the help of Example.
С	Explain the components needed in a system for RFID IoT applications.
	State the issues in using RFID.

Q3.	Solve any Two Questions out of Three 10 marks each
A	Explain the first four steps of IoT Design Methadology.
В	Explain the Analytics phases. What is OLAP in Analytics?
С	How is Industrial IoT used in optimizing the manufacturing process? Explain with the help of an example.