Time: 3hourMax. Marks: 80

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	motor power is required for centrifugal pump if, specific weight of water is 9810 N/m ³ , discharge is 1049.4 LPM, manometric head is 47.65 m and overall efficiency is 85%.
Option A:	9.61 KW
Option B:	12.60 KW
Option C:	15 KW
Option D:	20 KW
option D.	
2.	If a flat belt is passing over the drum having drum diameter 750 mm with a speed of 1.56 m/sec, then the drum shaft will rotate with
Option A:	32.27 rpm
Option B:	36.72 rpm
Option C:	39.72 rpm
Option D:	45.72 rpm
3.	A machine tool gear box has minimum speed of 100 rpm. If thegeometric progression ratio is 1.06, then the number of speed steps required to achieve 200 rpm will be
Option A:	10
Option B:	11
Option C:	13
Option D:	14
1	\$\display \times
4.	Whipping stress in connecting rod is due to
Option A:	Vibrations of crankshaft
Option B:	Reciprocating motion of piston
Option C:	Inertia force on connecting rod
Option D:	Obliquity of connecting rod
\$ 100 St. F. A.	
5.5.5	The step of preparing a blue print of the design is a part of
Option A:	Structural design
Option B:	Design of methodology
Option C:	Design of optimization
Option D:	Design of morphology
6.	If the net positive suction head (NPSH) requirement for the pump is not satisfied, then
Option A:	No flow will take place
Option B:	Cavitation will be occurred
Option C:	Efficiency will be lowered
Option D:	Excessive power will be consumed
A - C - C - C - C - C - C - C - C - C -	
	If the equivalent load acting on a roller bearing to be used for the hoisting drum is 29160 N and the life required is 5.064 million of revolutions, then the dynamic load carrying capacity of the bearing will be

Option A:	4743.90 Kgf
Option B:	4347.09 Kgf
Option C:	3447.90 Kgf
Option D:	7434.90 Kgf.
8.	In the harmonic progression
Option A:	The difference between reciprocal of two successive spindle speeds is constant
Option B:	The difference between two successive spindle speeds is constant
Option C:	The ratio of two successive spindle speeds is constant.
Option D:	The ratio of two successive spindle speeds is variable.
9.	Steel rope life is approximatelythe number of bends
Option A:	Directly proportional to
Option B:	Inversely proportional to
Option C:	Equal to
Option D:	Five times more than
10.	If the number of rope falls are 4 and the hoisting speed is 8m/min,then the rope
	velocity will be
Option A:	32 m/min
Option B:	16 m/min
Option C:	8 m/min
Option D:	4 m/min

Q2.	Solve any Two Questions out of Three 10 marks each
A	Following specification refers to an EOT crane Load to be lifted =7 tonne, Maximum lift = 8m Hoisting Speed = 7m/min., Application = Class II Span = 8m, Velocity of cross travel = 20 m/min. 1) Select suitable type and size of wire rope for an expected life of 12 months. 2) Design pulley axle.
B	A 20°C troughing belt conveyor system has the following specification: Material conveyed: Coal, Capacity: 300 TPH, Centre distance = 50m. 1) Determine the width of belt. 2) Select suitable motor for the conveyor.
C	A four stroke single cylinder water cooled diesel engine develops 7.5KW brake power when operating at 1000rpm 1)Design size of engine with liner. 2) Design the piston.

Q3.	Solve any Two Questions out of Three 10 marks each
A	A gear pump is to be designed to deliver 120 LPM of SAE 30 oil at a pressure of 70 bar. 1) Design gear and check it for bending failure. 2) Select suitable motor for gear pump.
B	A centrifugal pump directly coupled to a motor is required to deliver 1000 LPM of water at 30 ^o C against a total head of 25m.

	1) Select suitable motor with power and speed.
	2) Determine impeller diameter, inlet and outlet vane angles and no. of vanes.
С	A 2x3x2 type,twelve speed gear box is to be designed for a machine tool where a spindle speeds varying between 50rpm and 3000rpm. If the gear box is driven by 7.5 KW, 1440rpm electric motor. Assume same module for all gears. 1) Draw optimum structural diagram 2) Draw ray diagram and speed chart.
	3) Determine the number of teeth on the gears of the second stage.

Q4.	Solve any Four out of six 5 marks each
A	Draw flow chart for the morphology of design and explain each phase.
В	Explain the basic constructional details of different types ropes used in EOT crane. What do you understand by 6×37 rope?
С	Why cleaning of belt is necessary for belt conveyor? List down the usual types of cleaners.
D	List different types of piston rings and their function.
Е	What are advantages of multi-fall system in hoisting mechanism?
F	Illustrate the significance of NPSH in centrifugal pump.

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Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	Which of the following is NOT concerned with scientific management?
Option A:	F. W. Taylor's
Option B:	Taguchi
Option C:	Gilbreth
Option D:	Gantt
*	ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ
2.	Value analysis technique comprises
Option A:	Development of new methods
Option B:	Measurement to complete a job
Option C:	Watching actions of body parts during service
Option D:	Reducing the cost of items and services
	4 4 6 6 6 7 7 7 8 8 6 6 7 7 7 7 7 7 7 7 7 7
3.	Four key elements for developing agile manufacturing are
Option A:	Strategic planning, Product design, Virtual enterprise, Enterprise Resource Planning
Option B:	Strategic planning, Product design, Virtual enterprise, Automation and Information Technology
Option C:	Virtual enterprise, Product design, Value Analysis, Automation and Information Technology
Option D:	Automation and Information Technology, Strategic planning, Product design, Virtual enterprise, Digital Scanning
4.	In SIMO chart, the movements are recorded against time measured in
Option A:	Minutes Solo Solo Solo Solo Solo Solo Solo Sol
Option B:	Seconds
Option C:	Micro seconds
Option D:	Winks
6F	5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
5.	Therblig is described by standard symbol and color in
Option A:	Macro-motion study
Option B:	Gantt chart
Option C:	Micro-motion study
Option D:	Curve chart
	75 2 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
6.00	Ergonomics is related to
Option A:	Value analysis
Option B:	Human engineering
Option C:	System analysis
Option D:	Management engineering
2 6 8 7 7 7 A	Material handling equipment, roller/belt conveyor are used for the
Option A:	Continuous movement, and relatively short distance
Option B:	Interrupted movement, and relatively short distance
Option C:	Interrupted movement, and relatively large distance
Option D:	Continuous movement, and relatively large distance
1,000 S. C. C. V	16.4.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6
8.00	Group Technology implies the notion of recognizing and exploiting similarities in following different ways, EXCEPT
Option A:	by efficiently storing and retrieving the information about recurring problems
Option B:	By restraining the grouping of general-purpose machines

Option C:	by standardizing the similar tasks
Option D:	by performing the like activities together
	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
9.	Tools and techniques of Lean Manufacturing are-
	I. Takt Time
	II. Cellular Manufacturing
	III. Supplier relation
	IV. Pull Systems and Kanban
Option A:	
Option B:	II, III, IV
Option C:	I, II, IV
Option D:	I, III, IV
	\$\$\\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \
10.	Which of the following components is not included in the flexible manufacturing
	system?
Option A:	Processing Stations
Option B:	Material Handling and Storage System
Option C:	Auxiliary Equipment
Option D:	Value stream mapping

Q2	Solve any Two Questions out of Three 10 marks each
A	Define productivity. What are the factors influencing productivity of an enterprise? Explain with examples.
В	List various work measurement techniques and discuss anyone in detail.
С	What do you understand by Job Evaluation? What are it's objectives? Explain Job Evaluation Process.

Q3	Solve any Two Questions out of Three 10 marks each
A	Delineate value engineering and Steps in the value engineering. Distinction between value engineering and value analysis.
B	A work sampling study was conducted for 100 hours in the machine shop in order to estimate the standard time. The total number of observations was 2500, No. of working activity could be noticed for 400 observations. The ratio between manual and machine elements was 2:1. average rating factor was estimated as 1.15 and total number of articles produced during the study period was 6000. Rest and personal allowances are 12% of the normal time. Estimate standard time to perform the operation. Answer:
6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	What is facility location decision? Describe the factors which influence the location decisions while setting up an Electric car manufacturing company.

Q4	Solve any Two Questions out of Three 10 marks each
A	Describe ergonomics. Explain the importance of anatomy, physiology and psychology
200 N O V -	w.r.t ergonomic discipline
B	Define Material Handling System. What are the important principles of material
1262 236	handling?
68,72.40,23	Write short note: (Any Two)
23.00.24	(i) Key elements for developing Agile Manufacturing
3000	(ii) Flexible Manufacturing
	(iii) Value Stream Mapping.

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	Draft tube is used for discharging water from the exit of
Option A:	an impulse turbine
Option B:	a Kaplan turbine
Option C:	a Pelton wheel
Option D:	a reciprocating pump
2.	Turbofan engine is preferred over turbojet due to
Option A:	high propulsive efficiency
Option B:	high thrust
Option C:	reducing noise
Option D:	all of these
	\$2007.44.60,60,60,60,60,60,60,60,60,60,60,60,60,6
3.	The use of recuperator in gas turbine plant is to
Option A:	increases thermal efficiency
Option B:	increase work output
Option C:	increase efficiency and power output
Option D:	decreases thermal efficiency
4.	Difference between impulse and reaction turbine is that
Option A:	in impulse turbine only pressure energy converted into work but in reaction
	turbine pressure and kinetic energy converted to work
Option B:	in impulse turbine only pressure energy converted into work but in reaction turbine kinetic energy converted to work
Option C:	in impulse turbine only kinetic energy converted into work but in reaction turbine pressure and kinetic energy converted to work
Option D:	in impulse turbine only kinetic energy converted into work but in reaction turbine
Option B.	pressure converted to work
5.00	What is the Stoichiometric (Theoretical) A/F ratio for the combustion of Methane
22 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CH4 on mass basics?
Option A:	10.58
Option B:	11.58
Option C:	9.58
Option D:	12.58
6.000	Cavitation in Centrifugal pump can be reduced by
Option A:	reducing the discharge
Option B:	reducing the suction head
Option C:	increasing the discharge
Option D:	increasing the flow velocity
	For given pressure and temperature conditions of reactants maximum adiabatic
000000000000000000000000000000000000000	flame temperature is achieved with
Option A:	weak mixture
Option B:	rich mixture
Option C:	stoichiometric mixture

Option D:	mixture with 10% excess air
8.	Fusible plug is used
Option A:	to extinguish fire in furnace
Option B:	to control pressure
Option C:	to control water level
Option D:	to control steam generation
9.	Francis turbine is
Option A:	an impulse turbine
Option B:	a radial flow impulse turbine
Option C:	an axial flow turbine
Option D:	a reaction radial flow turbine
10.	If diameter of a centrifugal pump impeller is doubled but discharge is to remain
	same, then the head needs to be reduced by
Option A:	2 times
Option B:	4 times
Option C:	8 times
Option D:	16 times

Q2. (20 Marks)	Solve any Four out of Six 5 marks each	
A	What is the difference between water tube and fire tube boilers?	
В	What is cavitation and what are it causes? How will you prevent the cavitation in hydraulic machine?	
C	Steam is generated at 11 bar and 250 °C in boiler from feed water at 26 °C. The calorific value of the coal used is 33707 kJ/kg. Calculate the factor of evaporation and equivalent evaporation from and at 100 °C. Also calculate the boiler power if 260 kg/h of coal is burnt.	
D	Explain velocity compounded impulse steam turbine showing pressure and velocity variations along the axis of the turbine.	
E	Differentiate between jet propulsion and rocket propulsion.	
F	Obtain the expression for the force exerted by a jet of water on a fixed curved plates when jet strikes at the center of a symmetrical curved blades.	

Q3. (20 Marks)	Solve any Two Questions out of Three	10 marks each
A	In a De-Laval turbine, the mean diameter of the of rotation is 3000 rpm. The steam issues from 300 m/s and the nozzle angle is 20°. The blades factor is 0.8. What is the power developed in on the blades is 140 N?	n the nozzles with a velocity of are equiangular. The friction
B	The penstock supplies water from a reservoir to head of 500 m. One third of the gross head is The rate of flow of water through the nozzle fitte 2 m³/s. The angle of deflection of the jet is 10 by the water to the runner and also hydraulic Take speed ratio 0.45 and velocity coefficient 1.	lost in friction in the penstock. ed at the end of the penstock is 65°. Determine the power given efficiency of the Pelton wheel.

	A Francis turbine has a diameter of 140 cm and rotates at 430 rpm. Water
	enters the runner without shock with a flow velocity of 9.5 m/s and leaves the
	runner without whirl with an absolute velocity of 7 m/s. The difference
	between the sum of static and potential heads at entrance to the runner and at
C	the exit from the runner is 62 m. The turbine develops 13000 kW. The flow
	rate through the turbine is 12 m ³ /s for a net head of 115 m. Find the following:
	i) The absolute velocity of water at entry to the runner and the angle of the
	inlet guide Vanes ii) The entry angle of the runner blades and iii) The loss of
	head in the runner

Q4.	
(20 Marks)	
A	Solve any Two 5 marks each
i.	Explain Ramjet engine with neat diagram. What are its basic characteristics?
ii.	Write short notes on "Enthalpy of Formation".
iii.	Explain the principle of working of Pelton turbine. Draw velocity triangle.
В	Solve any One 10 marks each
i.	In a gas turbine plant, the air enters the compressor at 0.15 Mpa and 20 °C. The maximum pressure and temperature of the cycle are 1.2 Mpa and 1200 °C respectively. Determine the cycle thermal efficiency if the turbine and compressor efficiencies are 85 % each.
ii.	A Single-acting reciprocating pump has stroke length of 15 cm. The suction pipe is 7 meter long and the ratio of the suction diameter to the plunger diameter is 3/4. The water level in the sump is 2.5 meters below the axis of the pump cylinder, and the connecting the sump and pump cylinder is 7.5 cm diameter. If the crank is running at 75 rpm, determine the pressure head on the piston: (i) in the beginning of the suction stroke, (ii) in the end of the suction stroke, and (iii) in the middle of the suction stroke. Take coefficient of friction as 0.01.

Examinations summer 2022

Program: BE (Mechanical Engineering)

Curriculum Scheme: Examination: BE (Sem.VIII)

Course Code: MEDLO8043 Course Name: Renewable Energy Sources

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	Ocean thermal energy is produced due to
Option A:	Pressure difference at different levels in the ocean.
Option B:	Temperature difference at different levels in the ocean.
Option C:	Energy stored by waves in the ocean.
Option D:	Tides rising out of the ocean.
2	
2.	KVIC model plants are
Option A:	Fixed Dome Biogas Plants
Option B:	Floating Drum Biogas Plants
Option C:	Balloon Biogas Plants
Option D:	Polyethylene Tube Digester Biogas Plants.
3.	Path length of radiation through the atmosphere to the length of path when the sun is at zenith is called
Option A:	Declination
Option B:	Air mass
Option C:	Azimuth
Option D:	Solar Constant
4.	The angle through which the earth must turn to bring the meridian of a point directly in sun's rays is called
Option A:	Declination
Option B:	Zenith angle
Option C:	Latitude
Option D:	Hour angle
5.6	At wind speed exceeding the rated value, the rotor speed is held constant by automatic adjustment of of blades.
Option A:	Pitch S S S S S S S S S S S S S S S S S S S
Option B:	speed of rotor
Option C:	chord length of blades
Option D:	increasing load on blades
6.	The fraction of time during a given period that the turbine is actually on line is called?
Option A:	Cut out velocity
Option B:	Flat rating
Option C:	Availability factor
Option D:	Cut in velocity
	If retention period is r and volume of fluid in digester is V, the digester volume is given by
Option A:	Vr

Option B:	Vxr
Option C:	V+r
Option D:	V-r
8.	What is Hour angle at 10.30 am?
Option A:	-22.5°
Option B:	22.5°
Option C:	-45°
Option D:	45.°
9.	What is duration between two high tide?
Option A:	29 days 44 min
Option B:	6 h 25 min
Option C:	12 h 50 min
Option D:	14 days
10.	The process of producing energy by utilizing heat trapped inside the earth surface
	is called
Option A:	hydrothermal energy
Option B:	solar energy Solar energy
Option C:	geo-Thermal energy
Option D:	wave energy Company Co

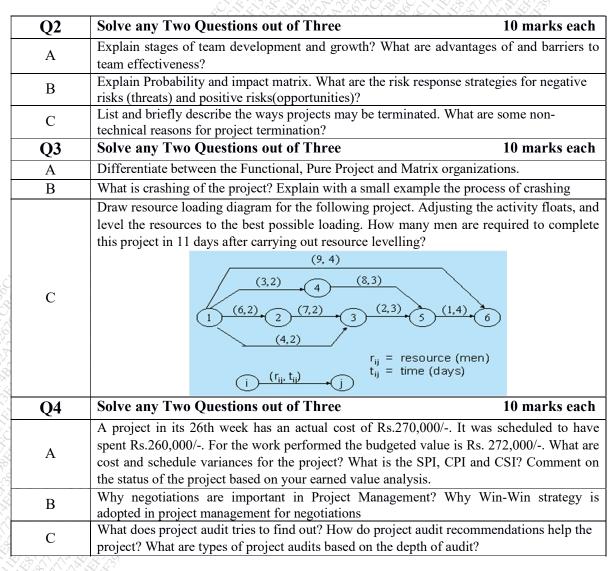
Q2	Solve any Four out of Six 5 marks each
A	Explain any two solar radiation measurement devices.
В	Calculate the variation of day length over a year on 19 th of each month of 2020 for location of Delhi (28°35'N,77°42'E)
С	Calculate the useful heat content per square km of dry rock granite to a depth of 7 km. Take the geothermal temperature gradient at 40°C/km, Take the minimum useful temperature as 140 K above the surface temperature, and rock density of 2700kg/m ³
D	Write short note on OTEC plant.
E	Explain any one wave energy conversion device.
F	Differentiate between Horizontal axis and Vertical axis wind turbines.

Q3	Solve any Two Questions out of Three 10 marks each	
A	Estimate the monthly average global radiation on a horizontal surface at Ratnagiri (16°59'N,72°05'E) during the month of march if the average sunshine hour per day is 9.5. Take a=0.31 and b=0.43	
B	Explain the various factors in details which affect the production of biogas.	
C	What is betz coefficient? Derive maximum power coefficient for horizontal axis wind mill.	

Q4	Solve any Two Questions out of Three 10 marks each	
S A S	Define and explain 1) latitude 2) Hour angle 3) Declination 4) Day length 5) Slope	
B	Draw and explain working of KVIC design of biogas digester	
	Calculate the number of animals and volume of bio digester required to produce Power for a household which has power requirement of 0.8 kW for lighting and cooking purpose. Take calorific value of methane as 28 MJ/m³, Burner efficiency as 70%, Retention period as 25 days, Dry matter per animal per day per animal is 1.8 kg , density of dry matter in slurry in digester is 50 kg/m³, Biogas yield is 0.3m² per kg of dry input, Methane proportion in gas is 0.7.	

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	Which is an example of Triple Constraint?
Option A:	Scope, Human Resource, Time
Option B:	Quality, Scope, Human Resource
Option C:	Cost, Human Resource, Time
Option D:	Scope, Cost, Time
2.	You are responsible for a project with high risks particularly during the early phases - your sponsor has asked for performance reports on a monthly basis. At the end of the first month you report a CPI greater than 1 and also the SPI greater than 1. What would this mean?
Option A:	The project is behind schedule and over budget
Option B:	The project is ahead of schedule and under budget
Option C:	The project is ahead of schedule but over budget
Option D:	The project is behind schedule but under budget
3.	Why does activities on critical path of a CPM network are called critical
Option A:	They represent maximum project completion time
Option B:	They cannot tolerate any delay in completion
Option C:	They consume maximum resources
Option D:	These are most complex activities on project
4.	A risk is known as Positive risk or opportunity if-
Option A:	Impact is negative which you want to lessen its impact
Option B:	Impact is positive which you want to lessen its impact
Option C:	Impact is negative which you may want to actualize
Option D:	Impact is positive which you may want to actualize
5.	The lowest element in the hierarchical breakdown of the WBS is
Option A:	Deliverable
Option B:	Work package
Option C:	Responsibility matrix
Option D:	Bottoms up budget
6.	When many activities are planned to start at the same time in project schedule, the project
-	is likely to be following
Option A:	Concurrent Engineering
Option B:	Research and Development Project
Option C:	Goldratt's Critical Chain
Option D:	laddering approach
7.	The payback period for a project
Option A:	is the internal rate of return that is the discount rate that equates the present values of the
	two sets of flows.
Option B:	is the discounted cash flow method determines the net present value of all cash flows by discounting them by the required rate of return
Option C:	is the initial fixed investment in the project divided by the estimated annual net cash

	inflows from the project.
Option D:	is also known as the benefit-cost ratio
8.	A project is over budget when
Option A:	CPI > 1
Option B:	SPI > 1
Option C:	CPI and SPI > 1
Option D:	CPI less than 1
9.	Select the correct statement from the following
Option A:	There is always only one critical path in the network
Option B:	A path is called a critical path if it is the longest path in a project network
Option C:	Slack or float of dummy activity is always equal to zero
Option D:	Crashing cost linearly increases with no of days crashed
10.	Project closure when the project is completed as planned is
Option A:	Failed projects
Option B:	Premature closure
Option C:	Abnormal closure
Option D:	Normal closure
	~ Y ~ X ~ X ~ X ~ X ~ X ~ X ~ X ~ X ~ X



Examinations Summer 2022 Program: IT01028 Curriculum Scheme: Rev2016

Examination: BE Semester VIII
Course Code: 52965 and Course Name: Environmental Management

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	The Bhopal gas Tragedy in 1984 is related to
Option A:	Nuclear disaster
Option B:	Earthquake disaster
Option C:	Man-made disaster
Option D:	Floods
2.	The government of India enacted EPA of 1986 under article of the constitution
Option A:	253
Option B:	251
Option C:	249
Option D:	51A
3.	The primary agenda of the Kyoto protocol is:
Option A:	Regulation of hazardous wastes
Option B:	Regulate the production of nuclear energy
Option C:	Control anthropogenic sources of greenhouse gases
Option D:	Control of the worldwide Energy consumption
4.	Which of the following is a prime health risks associated with greater UV radiation through the atmosphere due to depletion of ozone layer?
Option A:	Damage to digestive system
Option B:	Increased liver cancer
Option C:	Increased skin cancer

Neurological disorder
P-D-C-A stands for:
Plan-Do-Check-Act
Plan-Do-Correct-Act
Proceed-Do-Check-Act
Proceed-Do-Correct-Act
The combination of all factors that act to limit the growth of a population is:
Carrying capacity
Environmental resistance
Biotic potential Signature (1997)
Logistic growth
In acid rain PH of water is:
Less than 5.6
Around 7
More than 7
around 14
Environment Impact assessment (EIA) is done
Before the project
After the project
During the project
Any time in life cycle of project
Energy conversation act was formed in year
1997
2000

~	
Option C:	2001
1	2001
Ontion D.	
Option D:	1999
	N 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
10.	The Minamata Disease was caused due to:
10.	The Milianata Disease was caused due to.
O 1: A	
Option A:	Methyl Isocyanate
	A 6 7 7 8 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8
	\$\frac{1}{2}\display \qquad \q
Option B:	Mercury
option 2.	Welculy System S
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Ontion C	
Option C:	Benzene
	[
Option D:	
Option D.	Lead AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
	[

Q.2 (A)	Solve any two of the following: (10M)
i)	What are the aspects of Environment Management & challenges faced in it?
ii)	Write a note on loss of Bio-diversity.
iii)	Discuss the EMS certification.
(B)	Solve any one of the following: (10M)
i)	Discuss the Environmental issues relevant to India.
ii)	Write a note on the role of government as a planning & regulating agency.

Q3 (A)	Solve any two of the following:	(10M)
i) ,	Define: Limiting factors & Carrying capacity. Discuss their re environment.	elation with the
ii) \$ \$ \$	What are the features of Environment Protection Act, 1986.	
ii)	Discuss the role of Central Pollution Control Board (CPC monitoring.	CB) in pollution
(B)	Solve any one of the following:	(10M)
	What is ISO-14000? How does adoption of ISO-14000 pract Industries as well as the Environment?	tices benefit the
ii)	What is Hazardous Waste? Note the different health risk ca does it affect the environment?	used by it. How

Q4. (A)	Solve any two of the following:	(10M)
	Write a note on the Water(Prevention&control of Pollution)Act.	
	Define Ecosystem. What are the components of Ecosystem?	
	Differentiate between: Industrial Disasters & Man-made disasters	
B	Solve any One	(10M)
	What is sustainable development? Is sustainable development neo What are the parameters affecting it?	essary?
ii.	Write a note on; Total Quality Environmental Management & Co. Environment Responsibility.	rporate

Examinations summer 2022

Option A: 7 Option B: 7 Option C: 7 Option D: 7 2. 1 Option A: 0	The 'T' in a PESTLE analysis refers to, Technology Time Training Task BCG matrix is also referred as, Growth-sell matrix	
Option A: 7 Option B: 7 Option C: 7 Option D: 7 2. 1 Option A: 0	Technology Time Training Task BCG matrix is also referred as,	
Option B: Option C: Option D: C: Option D: C: Option D: C: Option A: Option	Time Training Task BCG matrix is also referred as,	
Option C: 7 Option D: 7 2. 1 Option A: 0	Training Task BCG matrix is also referred as,	
Option D: 7	Task BCG matrix is also referred as,	
2. I	BCG matrix is also referred as,	
Option A: 0		
Option A: 0		
Option B:	Business-cost matrix	
	Growth-Share Matrix	
	Business-share matrix	
Option D.	Dusiness-strate figura	
	The entrepreneur who has neither the will nor the desire to introduce and adopt new methods is called as,	
Option A: i	imitating entrepreneur	
Option B: a	adoptive entrepreneur	
Option C: 1	fabian entrepreneur	
Option D: i	innovative entrepreneur	
2		
	Combining of two or more businesses to try and achieve synergy to achieve more overall gains is referred as,	
Option A:	Merger Deal	
Option B:	Team Building	
Option C: 1	Franchise Setup	
Option D: 1	Partnership Deal	
	To convince a financial entity and an angel investor that the business can produce enough revenue to make a satisfactory profit and therefore attractive as an investment opportunity is called as,	
Option A: 1	Future plan	
	Profit-loss statement	
3 NO TOTAL Y - Y 1 1/1 IA	Balance statement	
~ ~ ^ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	Business plan	
6.6.	The three pillars of sustainable development for the entrepreneurial ecosystem are	
	Environment, Economy, Society	
	Ecology, Economy, Society	
	Environment, Ecology, Equity	
	Equity, Environment, Society	
	5	

7.	Which of the following is the responsibility of the government when it is in
	promotional role for encouraging entrepreneurship
Option A:	Build up and strengthen the necessary development infrastructures such as power,
	transport, finance, marketing, institutions for training and guidance.
Option B:	It should see to it that the national resources are directed to the right purpose.
Option C:	Set up State Owned Enterprises (SOEs)
Option D:	Encourage or Discourage certain activities through monetary and fiscal incentives
	and disincentives
8.	As per MSME, the investment in plant and machinery under manufacturing sector
	does not exceed and in equipment under service sector does not exceed
Option A:	5 Lakhs - 10 Lakhs
Option B:	10 Lakhs -15 Lakhs
Option C:	25 Lakhs - 10 Lakhs
Option D:	50 Lakhs - 10 Lakhs
9.	What is not the characteristics of PPP's
Option A:	Focuses of goods
Option B:	Resources
Option C:	Sharing
Option D:	Continuity
10.	Trademarks relate to
Option A:	Practice and knowledge acquired through experience
Option B:	The protection of proprietary information of commercial value
Option C:	The right to reproduce one's own original work
Option D:	Brand identity

Q2.	Attempt any Two out of Three (10 marks each)
A	What do you mean by a business plan? Explain the issues to be addressed in a business plan?
В	Write a note on the various initiatives by GOI for women entrepreneurs.
C	Give the impact on the marketing aspects of a product by entrepreneur by the use of Digital Marketing

Q3.	Attempt any Two out of Three (10 marks each)	
A	Explain the process of closing your business?	
\mathbf{B}	What are the functions of an entrepreneur in entrepreneurial development?	
C	What are the Four types of firm level growth strategy?	

Q4.	Attempt any Two out of Three	(10 marks each)
A	Explain the steps on harvesting or closing small business.	
\mathbf{B}	Note on Capital and its importance to entrepreneur.	
\mathbf{C}	State the Importance of MSME's towards national growth.	

Examinations Summer 2022 Program: IT01028 Curriculum Scheme: Rev2016

Examination: BE Semester VIII
Course Code: 52965 and Course Name: Environmental Management

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	The Bhopal gas Tragedy in 1984 is related to
Option A:	Nuclear disaster Nuclear disaster
Option B:	Earthquake disaster
Option C:	Man-made disaster
Option D:	Floods
2.	The government of India enacted EPA of 1986 under article of the constitution
Option A:	253
Option B:	251
Option C:	
Option D:	51A
3.5	The primary agenda of the Kyoto protocol is:
Option A:	Regulation of hazardous wastes
Option B:	Regulate the production of nuclear energy
Option C:	Control anthropogenic sources of greenhouse gases
Option D:	Control of the worldwide Energy consumption
4.	Which of the following is a prime health risks associated with greater UV radiation through the atmosphere due to depletion of ozone layer?
Option A:	Damage to digestive system
Option B:	Increased liver cancer
Option C:	Increased skin cancer

Option D:	Neurological disorder
5.	P-D-C-A stands for:
Option A:	Plan-Do-Check-Act
Option B:	Plan-Do-Correct-Act
Option C:	Proceed-Do-Check-Act
Option D:	Proceed-Do-Correct-Act
6.	The combination of all factors that act to limit the growth of a population is:
Option A:	Carrying capacity
Option B:	Environmental resistance
Option C:	Biotic potential
Option D:	Logistic growth
7.	In acid rain PH of water is:
Option A:	Less than 5.6
Option B:	Around 7
Option C:	More than 7
Option D:	around 14
8.	Environment Impact assessment (EIA) is done
Option A:	Before the project
Option B:	After the project
Option C:	During the project
Option D:	Any time in life cycle of project
9.	Energy conversation act was formed in year
Option A:	1997
Option B:	2000

0 0	
Option C:	2001
1	
Option D:	1999
- F	
10.	The Minamata Disease was caused due to:
10.	The Milianata Disease was caused due to.
Option A:	Methyl Isocyanate
option 71.	Injectify isocyaniate
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
	X Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y
Option B:	Mercury
option 2.	Intercuty State St
Option C:	Benzene
option c.	Delizerie System State S
	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
Option D:	
Option D.	Lead SUBJECT STREET

Q.2 (A)	Solve any two of the following: (10M)		
i)	What are the aspects of Environment Management & challenges faced in it?		
ii)	Write a note on loss of Bio-diversity.		
iii)	Discuss the EMS certification.		
(B)	Solve any one of the following: (10M)		
i)	Discuss the Environmental issues relevant to India.		
ii)	Write a note on the role of government as a planning & regulating agency.		

Q3 (A)	Solve any two of the following:	(10M)
i)	Define: Limiting factors & Carrying capacity. Discuss their renvironment.	elation with the
ii)	What are the features of Environment Protection Act, 1986.	
(iii)	Discuss the role of Central Pollution Control Board (CPC monitoring.	CB) in pollution
(B) 2 2 2	Solve any one of the following:	(10M)
	What is ISO-14000? How does adoption of ISO-14000 prac Industries as well as the Environment?	tices benefit the
ii)	What is Hazardous Waste? Note the different health risk codoes it affect the environment?	aused by it. How

Q4. (A)	Solve any two of the following:	(10M)	
	Write a note on the Water(Prevention&control of Pollution )Act.		
	Define Ecosystem. What are the components of Ecosystem?		
	Differentiate between: Industrial Disasters & Man-made disasters		
B	Solve any One	(10M)	
	What is sustainable development? Is sustainable development necessary? What are the parameters affecting it?		
	Write a note on; Total Quality Environmental Management & Cor Environment Responsibility.	porate	