**R18** 

Course Code: A30142



### CMR COLLEGE OF ENGINEERING & TECHNOLOGY

(UGC AUTONOMOUS)

B.Tech V Semester Supplementary Examinations June/July-2024

Course Name: Environmental Impact Assessment

(Civil Engineering)

Date: 01.07.2024 FN Time: 3 hours

Max.Marks: 70

#### (Note: Assume suitable data if necessary) **PART-A**

Answer all TEN questions (Compulsory) Each question carries TWO marks.

10x2 = 20M

1.	Mention any four limitations of EIA.		2 M
2.	What is initial Environmental Examination?		2 M
3.	List out the causes of deforestation.		2 M
4.	Define sustainability.		2 M
5.	Define importance of impact prediction.	593	2 M
6.	Give any four examples for renewable energy.		2 M
7.	What is Environmental Audit?		2 M
8.	What are the objectives of Environmental Audit?		2 M
9.	Define wild life Act.		2 M
10.	Define water Act.		2 1/1

#### PART-B

Answer the following. Each question carries TEN Marks.	5x10=50M
and the state of t	3X10-30IV

OR

11.A). Explain network method of EIA. M

11. B). How Matrix method will help project planner?

10M

10M

2 M

12. A). Describe how project development activities will have an impact on vegetation and wild

10M

OR

12. B). Explain the factors that lead to increase in deforestation.

10M

13. A). How would you identify and introduce mitigation measures after assessing the impacts?

10M

OR

13. B). Explain the ways through which the soil quality can be determined.

10M

14. A). Explain the environmental audit procedure and also the pre-audit activities, on-site activities, post-audit analysis.

10M

OR

14. B). Explain the significance of having Environmental legislations in a country.

10M

15. A). Elaborate the circumstances which led to the Environmental Protection Act.

10M

15. B). What are the salient features of Air (Prevention & Control) Act?

10M



## CMR COLLEGE OF ENGINEERING & TECHNOLOGY (UGC AUTONOMOUS)

	(UGC AUTONOMOUS)	
	B.Tech V Semester Supplementary Examinations June/July-2024	
	Course Name: Electric Smart Grid Technologies	
	(Electrical & Electronics Engineering) Date: 12.07.2024 FN Time: 3 hours  Max.Max.Max.Max.Max.Max.Max.Max.Max.Max.	arks: 70
	(Note: Assume suitable data if necessary)	arks: 70
	PART-A	
	Answer all TEN questions (Compulsory)	
	Each question carries TWO marks.	x2=20M
1.	Define Smart Grid.	2 M
2.	What is the role of Renewable Sources in Smart Grids?	2 M
3.	What is Automation?	2 M
4.	List the Componets of Smart Grid.	2 M
5.	Write the principle of fuel cell.	2 M
6.	Mention advantages of EVs over Conventional Vehicles.	2 M
7.	Listout the various classical load flow methods	2 M
8.	Listout the built-in performance measures of DSOPF.	2 M
9.	Write types of PMUs.	2 M
10.	Define Wide Area Measurement System.	2 M
		- 1
	PART-B Answer the following. Each question carries TEN Marks.  5x1	10 50NA
	axiswer the following. Each question carries TEN warks.	10=50M
11.A	). Explain the benefits associated with Smart Grid when compared to conventional Grid.	10M
	OR	
11. E	3). Explain the concept of Resilient and self-healing grid.	10M
12. <i>A</i>	A). Explain in detail about achitecture of Smart Grid	10M
	OR	10101
12. E		10M
		10141
13. A	,	10M
-	OR	
13. B	<ol> <li>Compare various types of Electric Vehicles and Mention challenges of Plug-in Hybri Electric Vehicles.</li> </ol>	d 10M
14. A	.). Explain the Load Flow in Smart Grid using flowchart.	10M
	OR	
14. B	). Write a short notes on Contingency studies for Smart Grid.	10M
15. A	). Explin the priciple of syncro phasor and Also give performance types of PMUs.	10M
	OR	10101
15. B		10M
	. 1 , ,	IOIVI



(UGC AUTONOMOUS)

B.Tech V Semester Supplementary Examinations June/July-2024

Date: 12.07.2024 FN	(Electrical & Electronics Engineering) Time: 3 hours	Max.Ma	rks: 70
	(Note: Assume suitable data if necessary) PART-A Answer all TEN questions (Compulsory) Each question carries TWO marks.	10x	2=20M
For moving iron type i	nstruments, give the expression for the deflecting torque.		2 N
Describe errors in mea			2 N
Give specific use of In	strument Transformers.		2 N
	angle errors in potential transformers.		2 N
	g instruments to measure active power.		2 N
	im for measurement of three phase reactive power.		2 N
	ping in an energy meter.		2 M
	principle of maximum demand meter.		2 N
	f electrical transducers?	9	2 M
Classify the Transduce			2 M
	PART-B		

PART-B	
Answer the following. Each question carries TEN Marks.	5x10=50M

Explain the construction and operating principle of PMMC instrument. Derive the 10M expression for deflection of PMMC

#### OR

11. B).	Elaborate t	the designing	procedure	of	shunts	and	series	resistance	in	instruments	for	10M
	extension.										101	10171

12. A). With neat sketch explain about the types of frequency meters. 10M

#### OR

TOW	12. B).	Brief about the operation and working principle of MI type power factor meter.	10M
	12. B).	Brief about the operation and working principle of MI type power factor meter	10M

13. A). Explain the construction and working of principle of single-phase dynamometer type 10M wattmeter.

#### OR

13. B).	Write the procedure to extend the range of wattmeter using instrument transformer.	10M
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14. A). Explain the operation of single-phase induction type energy meter. 10M

#### OR

i) A 50A, 230V meter on full load test makes 61 revolutions in 37s. If the normal disc 14. B). 5M speed is 520 revolutions per kWh, find the percentage error. ii) How to test by phantom loading energy meter using R.S.S meter. 5M

(P.T.O..)

15. A). With the help of characteristics discuss the principle of operation of LVDT and its 10M advantages.

15. B). i) With neat diagram explain the working principle of strain gauges.
ii) Enumerate the differences between a PN diode and a Photo diode and briefly explain 5M the working of Photo diode.



(UGC AUTONOMOUS)

B.Tech V Semester Supplementary Examinations June/July-2024

	Course Name: Refrigeration & Air Conditioning	•	
	Date: 03.07.2024 FN (Mechanical Engine Time: 3 hours	ering) Max.Marks	s: 70
	(Note: Assume suitable data PART-A	if necessary)	
	Answer all TEN questions (C Each question carries TWC		<b>20M</b>
1.	Define tonne of refrigeration.		2 M
2.	Sketch Bell coleman cycle on P-V diagram.		2 M
3.	What is the effect of the sub cooling of liquid on the COP	•	2 M
4.	Mention the advantages of vapour compression refriger system.	ation system over air refrigeration	2 M
5.	What are the causes of ozone depletion?		2 M
6.	Give the designation for Dichloro-tetrafluro-ethane refrige	rant.	2 M
7.	What is the principle of the steam jet refrigeration system.		2 M
8.	Define and write the expression for entrainment efficiency	in steam jet refrigeration system.	2 M
9.	What is an adiabatic saturation process. Represent the sam	e on a psychrometric chart.	2 M
10.			2 M
	PART-B		

### PART-B

#### Answer the following. Each question carries TEN Marks.

5x10=50M

10M

11.A). Explain Bootstrap aircraft refrigeration system.

#### OR

- 11. B). An ice plant is working on a reversed Carnot cycle produces 15 tons of ice per day. The ice is formed at 0°C and water supplied is also at 0°C. The heat is rejected to atmosphere at 25°C. The heat pump used to run the plant is coupled to a Carnot engine receives heat from a source at 220°C and it rejects the heat to atmosphere. The fuel Calorific value, 44.5 MJ/kg is used for supplying the heat. Determine the following (i) power developed by the engine and (ii) fuel used/hr. Take enthalpy of fusion of ice=334.5 kJ/kg.
- 12. A). What is the effect of sub cooling and super heating in vapor compression process and show it in T-S and h-s diagram?

OR

- 12. B). An ammonia ice plant operates between a condenser temperature of 30°C and an evaporator temperature of -20°C. It produces 10 tons of ice per day from water at 25°C to ice at -10°C. Assuming simple saturation cycle, determine: i) the capacity of refrigerating plant ii) mass flow rate of refrigerant and iii) COP of the cycle.
- 13. A). What points are considered in selecting a condenser for a refrigeration system. Also explain working of any one type of condenser used in refrigeration system with neat sketch.

(P.T.O..)

13. B).	Where air-cooled condensers are preferred over water-cooled condensers? Give examples with specific reasons?	10M
14. A).	Make a comparative list between vapour absorption system and a compression system?	10M
	OR	
14. B).	For a steam jet refrigeration system, the steam enters the nozzle at 8 bar just dry saturated	10M
	state. The condenser pressure is 0.07 bar and flash chamber is to be maintained at $5^{\circ}$ C. The make-up water enters the flash chamber at $35^{\circ}$ C. Taking nozzle, entrainment and compressor efficiencies are $\eta_n$ =0.94, $\eta_e$ =0.75 and $\eta_c$ =0.65 respectively, compute (i) amount of steam per kg of vapour formed in the flash chamber, (ii) COP, and (iii) volume of vapour leaving the flash chamber per ton per hour.	
15. A),	Explain the difference between comfort air-conditioning and industrial air conditioning.	10M
	OR	
15. B).	What are the different types of fans used in air-conditioning systems? Discuss their applications with their relative advantages and disadvantages.	10M



(UGC AUTONOMOUS)

B.Tech V Semester Supplementary Examinations June/July-2024

Course Name: Digital Design Through Verilog HDL

	(Electronics & Communication Engineering) Date: 03.07.2024 FN Time: 3 hours Max.Mar.	ks: 70
	(Note: Assume suitable data if necessary) PART-A	
	Answer all TEN questions (Compulsory)	=20M
1.	Summarize the significance of programming language Interface.	2 M
2.	What is functional verification?	2 M
3.	Define Keywords and Identifiers.	2 M
4.	Create the following variables in Verilog	2 M
	a) An integer called count	
	b) An array called delay. Array contains 20 elements of the type integer.	
5.	Inspect Blocking and Non-Blocking assignments.	2 M
6.	Illustrate the assignments with delays.	2 M
7.	Dissect the conditions for task to be defined.	2 M
8.	Outline the uses of complier directives.	2 M
9.	Dissect the significance of test bench techniques.	2 M
10.	Interpret the capacitive model.	2 M
	PART-B Answer the following. Each question carries TEN Marks. 5x10	=50M
11.A	<ul><li>i) Analyze the following terms relevant to Verilog HDL</li><li>i) Simulation versus synthesis</li><li>ii) System Tasks.</li></ul>	10M
	OR	
11. E	3). i) Using an example, Brief about concurrent and procedural statement with syntaxes. ii) Interpret the components of a Verilog module with block diagram.	5M 5M
12. <i>A</i>	A). i) Design D flip-flop with gate primitives.  ii) Write the Verilog program for 2 bit comparator using gate level model.	5M 5M
10.0	OR	101/4
12. E	3). Develop the Verilog code for CMOS NOR in data flow model.	10M
13. A	A). i) How intra assignments delay control, event based timing control takes place in Verilog HDL?	5M
2	ii) Write program for Moore machine in behavioral model.	5M
	OR	
13. E		5M
	ii) Identify the differences between an initial behavior and an always behavior. (P.T.O)	5M

14. A).	i) Illustrate the blocks in the logical synthesis.	5M
	ii) Brief about RTL synthesis.	5M
	OR	
14. B).	i) Inspect the synthesis of the disable statements using a program.	5M
	ii) Explain the non-blocking assignments of synthesis.	5M
15. A).	i) Write a program for NMOS inverter with pull up loads.	5M
	ii) Implement a 4X1 mux using CMOS transmission gates.	5M
	OR	
15. B).	i) Briefly explain any one method used for sequential circuit testing.	5M
	ii) Write Verilog module for 8-bit comparator with test bench.	5M
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## CMR COLLEGE OF ENGINEERING & TECHNOLOGY (UGC AUTONOMOUS) R Tech V Semester Supplementary Examinations June/July-2024

	B.Tech V Semester Supplementary Examinations June/July-202	24	
	Course Name: Computer Organization (Electronics & Communication Engineering)		
	<b>Date: 03.07.2024 FN</b>	Max.Marks	s: 70
	(Note: Assume suitable data if necessary) PART-A		
	Answer all TEN questions (Compulsory) Each question carries TWO marks.	10x2=	20M
1.	Differentiate between byte addressable and word addressable.		2 M
2.	Infer the following addressing mode with suitable example.		2 M
	<ul><li>(a) Register indirect</li><li>(b) Index addressing mode</li></ul>		
3.	Why 2's complement number representation is better than 1 's complement?		2 M
4.	How overflow condition is detected during binary addition?		2 M
5.	How does the processor resolves among simultaneous interrupt requests?		2 M
6.	List the functions of DMA.		2 M
7.	Define cache coherency.		2 M
8.	List the advantages of pipeline technique.		2 M
9.	Recall Memory Hierarchy.		2 M
10.	List the different types of locality of references.		2 M
	PART-B		<b>703.</b>
	Answer the following. Each question carries TEN Marks.	5x10=	<u>50M</u>
11.4	ii) Inspect the layout of an instruction and thus write different types of instruction according to the appearance of number of address, with the advantages, disadvantages, disadvantages		5M 5M
	one example.  OR		
11 1		<b>3</b>	5M
11.	<ul><li>i) Discuss briefly about any three addressing modes of instruction with example</li><li>ii) Determine with explanation of the different types of instruction sets in a gen</li></ul>		5M
	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		5141
12.	A). i) Multiply the -7×3 using booth's multiplication algorithm.		5M
	ii) Determine the advantages of carry look ahead adder in comparison to r adder. Explain by taking some examples.  OR	ipple carry	5M
12.			5M 5M

(P.T.O..)

13. A).	i) Develop the micro routine for single bus Organization to execute the following instruction: ADD (R1)+, R2.	5M
	ii) Construct the schematic diagram of the architecture of a 8086 processor, clearly	5M
	showing the general purpose, Special purpose registers and the data path. Explain the function of each component.	
	OR	
13. B).	i) Develop micro routine for single bus Organization to execute the following instruction: SUB R1, 40	5M
	ii) Construct the CPU 3-bus 0rganization and explain the diagram with it's advantage and disadvantage.	5M
14. A).	Discuss by writing short notes on (i) pipelining (ii) cache coherency.	10M
	OR	
14. B).	What is throughput? How to enhance the throughput. Explain with examples.	10M
15. A).	i) Write a short note on hierarchical memory organization.	5M
,	ii) Write different mapping techniques in cache with their merits and demerits.	5M
	OR	
15. B).	i) Estimate the number of hits and misses in a 4-blocked cache for the LRU policy if the sequence of block reference by CPU is given like;2,2,3,4, 2, 5,6, 4, 7,5.	5M
	ii) Explain the importance of associate mapping and how to determine the different bits. Explain the disadvantages over direct mapping.	5M



(UGC AUTONOMOUS)

B.Tech V Semester Supplementary Examinations June/July-2024

Course Name: Information Security

I	Date: 28.06.2024 FN	(Common for CSE & IT) Time: 3 hours	Max.Marks: 70
(( <del>-</del>	Jule 20:00:2024 111	(Note: Assume suitable data if necessary)	WIAX.WIAFRS: /U
		PART-A	
		Answer all TEN questions (Compulsory) Each question carries TWO marks.	10x2=20M
1.	Define Interruption.		2 14
	What is DES?		2 M
	What is message authenti	cation?	2 M
	What is key management		2 M
	Define Digital Signature.		2 M
6.	What is PGP?		2 M
7.	Define TLS.		2 M
8.	What is security Associat	ion?	2 M
9.	Define Threats.		2 M
10.	What is Trusted Systems?		2 M
		PART-B	
A	answer the following. Ea	ch question carries TEN Marks.	5x10=50M
11.A)	. Discuss the network s model.	security model with neat illustration and explain the	components of 10M
		OR	
11. B)	. Explain various modes	s of operations about block ciphers.	10M
12. A)	. i) Explain about RSA	Algorithm.	5M
,	· •	e-Hellman Key Exchange.	5M
		OR	
12. B)	. Explain about Hash Fu	anctions.	10M
13. A)	. Discuss about Digital	Signatures in detail.	10M
,	8	OR	10101
13. B).	. Discuss about Pretty G		_10M
14. A).	. Explain about IP Secur	rity Architecture	9
,		OR	10M
14. B).	. Discuss about Secure s		10M
15. A).	. Explain about Intruders	S.	
)	- F 1130 MA THIN MOOT	OR	10M
15. B).	Explain about Intrusion		10M
		•	10101



# CMR COLLEGE OF ENGINEERING & TECHNOLOGY (UGC AUTONOMOUS) B.Tech V Semester Supplementary Examinations June/July-2024

	Course Name: Software Testing Methodologies	<b>24</b>
	(Common for CSE & IT) Date: 28.06.2024 FN Time: 3 hours	3.6 3.6 1 70
	Date: 28.06.2024 FN Time: 3 hours  (Note: Assume suitable data if necessary) PART-A	Max.Marks: 70
	Answer all TEN questions (Compulsory) Each question carries TWO marks.	10x2=20M
1.	Define Testing.	2 M
2.	Mention the goals of testing.	2 M
3.	Explain data flow graph anomaly with an example.	2 M
4.	Compare data flow and transaction flow.	2 M
5.	Define domain testing with an example.	2 M
6.	Define cross and parallel term in path testing.	2 M
7.	What is logic-based testing?	2 M
8.	What are testability tips?	2 M
9.	What is power of matrix?	2 M
10.	Explain about WinRunner.	2 M
	PART-B Answer the following. Each question carries TEN Marks.	5x10=50M
11.4	A). Describe implementation and application of path testing.  OR	10M
11. ]		10M
12.	5	10M
12. I	OR	
12.1	B). Discuss in detail data flow testing strategies.	10M
13. A	A). Write about path products, path expression and reduction procedure in detail.  OR	10M
13. I	3). Compare Nice and ugly domains and give examples to each domain.	10M
14. <i>A</i>	A). What are the principles of state testing? Discuss advantages and disadvantages?  OR	10M
14. E	3). Explain about decision tables in detail.	10M
15. <i>A</i>	A). Write about node reduction algorithm? Explain with an example.  OR	10M
15. E	3). Explain in detail about graph matrices and power of matrix.	10M

H.T No: R18 Course Code: A30528



# CMR COLLEGE OF ENGINEERING & TECHNOLOGY (UGC AUTONOMOUS) B.Tech V Semester Supplementary Examinations June/July-2024

D	(Common for CSE, CSC & CSM) rate: 12.07.2024 FN Time: 3 hours	ax.Marks: 70
	(Note: Assume suitable data if necessary)	70
	PART-A	30
	Answer all TEN questions (Compulsory) Each question carries TWO marks.	10x2=20M
1. I	Define Data warehouse.	2 M
2. (	Compare OLTP and OLAP.	-2 N
3. I	Define Data mining.	2 N
4. V	Why do we preprocess the data?	2 IV.
	What is association mining?	
	Define apriori property.	2 M
	What is Bayes theorem?	2 M
	Define rule-based classification.	2 M
	What is the goal of clustering?	2 M
	What is the drawback of k-means algorithm?	2 M
10. 4	vitat is the drawback of k-means algorithm?	2 M
	PART-B	č.
AI	swer the following. Each question carries TEN Marks.	5x10=50M
11.A).	Explain about the Three-tier data warehouse architecture with a neat diagram.	10M
	OR	1017
11. B).		10M
	i) Star schema	10101
	ii) Snow Flake schema	
	iii) Fact constellation schema	
12. A).	How to classify data mining systems? Discuss.	10) 4
,	OR	10M
12. B).	Describe about Major issues in Data mining.	103.6
,		10M
13. A).	Explain about the Apriori algorithm for finding frequent item sets with an example.	10M
12 D)	OR	•
13. B).	i) What are the advantages of FP-Growth algorithm?	5M
	ii) Discuss the applications of association analysis.	5M
14. A).	Explain decision tree induction algorithm for classifying data tuples and with su example.	itable 10M
	OR	
14. B).	Discuss about Naïve Bayesian Classification.	10M
15. A).	What is outlier detection? Explain K-Means algorithm with an example.	10M
	OR	10141
5. B).	Elaborate on the key issues in hierarchical clustering algorithm.	10M
•	and the state of t	IVIVI

Course Code: A36217



## CMR COLLEGE OF ENGINEERING & TECHNOLOGY (UGC AUTONOMOUS)

B.Tech V Semester Supplementary Examinations June/July-2024

Course Name: Cyber Laws & Ethics

Ι	Date: 28.06.2024 FN	(CSC) Time: 3 hours	Max.Marks: 70
		(Note: Assume suitable data if necessary	y)
		Answer all TEN questions (Compulsory Each question carries TWO marks.	7) 10x2=20M
1.	What is the necessity of	IT Act, 2000?	2.1
	What are the amendment	•	2 N
		s to Indian evidence Act.	2 M 2 M
	What is the extra terrestri		2 N 2 N
5. I	Define Digital/Electronic	signature in Indian laws.	2 IV.
	What are the cyber regula		2 IV.
7. I	Define the term cyber squ	latting.	2 IV.
	What is reverse hijacking		2 IV
	Define EDI.		2 M
10. I	Define Cryptography Lav	v.	2 N
			2 17
<b>A</b> .	nowou 4b - C-II - 1	PART-B	
A	nswer the following. Ea	ch question carries TEN Marks.	5x10=50M
11.A).	Discuss various autho	rities under IT Act, 2000 and their powers.	10M
		OR .	1017.
11. B).	Explain penalties and	offences in detail.	10M
12. A).	Explain amendments t	o Bankers book evidence Act in detail.	
	2. pram amonaments (		10M
12. B).	Discuss traditional pri	OR	
			10M
13. A).	Elaborate E- Governar	ice concepts and practicality in India.	10M
		OR	
13. B).	Explain E- contracts an	nd its validity in India.	10M
14. A).	Explain the following		×
,	1	n computer programmes	10M
		easonable security practices in India	1
		OR	
4. B).	Demonstrate relevant p	rovisions of patent Act 1970.	10M
(5. A).	Describe the UNCITRA	AL model law.	10M
		OR	10111
5. B).	Explain cyber laws of r	najor countries.	10M



## CMR COLLEGE OF ENGINEERING & TECHNOLOGY (UGC AUTONOMOUS) B.Tech V Semester Supplementary Examinations June/July-2024

	Course Name: Advanced Python Programming	
	(Common for CSM & AIM)	
	Date: 03.07.2024 FN Time: 3 hours Max.Mark	s: 70
	(Note: Assume suitable data if necessary) PART-A,	
	Answer all TEN questions (Compulsory) Each question carries TWO marks. 10x2=	=20M
1.	What are the keywords and tokens in Python?	2 M
2.	What function allows reading and writing files in Python?	2 M
3.	How to perform indexing and slicing using NumPy in Python?	2 M
4.	What is data wrangling with pandas in Python?	2 M
5.	What is SciPy module in Python?	2 M
6.	What is Python Matplotlib?	2 M
7.	Explain the importance of Database connection using Python.	2 M
8.	What is Flask templates?	2 M
9.	What is GUI?	2 M
10.	How to create main window using PyQt?	2 M
	*	
	PART-B Answer the following. Each question carries TEN Marks.  5x10=	<b>=0</b> % <b>=</b>
	Answer the following. Each question carries TEN Marks.  5x10=	SUIVI
11.4	A). Compare Modules and Packages in Python. Write a program to print the current date using python.	10M
	OR -	
11.	B). Explain in details about File Handling in python with an example program.	10M
12.	A). Create a vector in Python using NumPy with an example.	10M
	OR	
12.	B). Explain the procedure to Loading a dataset into a dataframe using pandas.	10M
13.	A). Using an example Create function, modules of SciPy.	10M
	OR	101/1
13.]		10M
14. /	A). List the basic steps to connect Python with MYSQL using table Students present in the database 'College'.	10M
	OR	
14. I	3). Illustrate how to create a web application using Python Flask.	10M
15. <i>A</i>	A). Explain the procedure of Installing PyQT. Discuss the advantages of using PyQT over other Python GUI frameworks.	10M
	OR	
15. E	3). Compare dumb dialogues, standard dialogs, smart dialogs with examples.	10M



Course Code: A30532



## CMR COLLEGE OF ENGINEERING & TECHNOLOGY

(UGC AUTONOMOUS)

B. Tech V Semester Supplementary Examinations June/July-2024

Course Name: Software Project Management

Da	(CSD) ate: 03.07.2024 FN Time: 3 hours	Max.Marks: 70
	(Note: Assume suitable data if necessary)	
	PART-A Answer all TEN questions (Compulsory)	
	Each question carries TWO marks.	10x2=20M
. v	What are the basis reverse tous of as foreign as a series	
	What is a peer inspection in anthuara project management?	2 M
	What is a peer inspection in software project management? What is the elaboration phase of the life cycle?	2 M
	- ·	2 M
	What are management artifacts in project management? What is checkpoint?	2 M
	<u>^</u>	2 M
	What is pragmatic planning?	2 M
	What is line of business organization?	2 M
	ist the Responsibility of organization.	2 M
	Why do we need metrics for automation?	2 M
0. W	/hat is Mean Time Between Failures?	2 M
	PART-B	
An	swer the following. Each question carries TEN Marks.	5x10=50M
1.A).	Explain in detail waterfall model with neat sketch.	10M
,-	OR	1010
1. B).	Elaborate pragmatic software cost estimation.	10M
2. A).	Discuss in detail about Engineering artifacts.	10M
. D)	OR	
2. B).	Explain in detail about Software process workflows.	10M
3. A).	Discuss in details Iteration planning process.	10M
	OR	
3. B).	Briefly explain Periodic status assessments.	10M
I. A).	Explain in detail evolution of Organizations.	10M
	OR	10111
. B).	Explain in detail Automation Building blocks.	10M
5. A).	Discuss in detail pragmatic Software Metrics.	101/1
. A.J.	OR	10M
5. B).		103.6
,. DJ.	Briefly explain Management indicators and quality indicators.	10M

H.T No: R18 Course Code: A30533



### CMR COLLEGE OF ENGINEERING & TECHNOLOGY

(UGC AUTONOMOUS)

B.Tech V Semester Supplementary Examinations June/July-2024

**Course Name: Mobile Computing** 

(AID)

D	ate: 03.07.2024 FN	Time: 3 hours Max.Ma	rks: 70
		(Note: Assume suitable data if necessary)	
		PART-A Answer all TEN questions (Compulsory)	
			<b>2=20M</b>
1. V	Which types of different	services does GSM offer?	2 M
2. I	List any 3 limitations of	Handheld devices.	2 M
3. V	What is the basic prerequ	uisite for applying FDMA?	2 M
4. V	Write the main theme of	DHCP in Mobile Communications.	2 M
5. (	Can the problems using	TCP be solved by replacing TCP with UDP?	2 M
6. I	Define Database Hoardin	ng.	2 M
7. V	What is selective tuning?		2 M
8. I	Define data synchronizat	ion.	2 M
9. L	List any 4 advantages of	MANET.	2 M
10. I	Define Reactive protocol	ls.	2 M
		PART-B	
$\underline{\mathbf{A}}$	nswer the following. Ea	ach question carries TEN Marks. 5x1	10=50M
11.A).	Describe about subsy	stems of GSM architecture with neat diagram.	10M
		OR	
11. B).	′ •	sheld devices and also write the limitations.	5M
	ii) Write in detail abo	out Mobile computing applications and challenges.	5M
12. A)	. Explain about TDMA	A and FTDMA with suitable example.	10M
		OR	
12. B).	•	g: apsulation iii) Route Optimization	10M
13. A).	. Explain briefly about	Database Hoarding with their architecture.	10M
	<b>F</b>	OR	
13. B).	•	Il TCP/IP protocols and also their limitations while applying Mobile Communications.	in 10M
14. A).	. Explain about pull disadvantages.	based and push based mechanism with their advantages ar	nd 10M
		OR	
14. B).	Discuss in detail about	ut Tree based index distributed indexing scheme.	10M
15. A).	i) Explain the securit	y attacks in MANETS.	5M
/-	ii) Explain the applic	ations of MANETS.	5M
		OR	
15. B).	Explain briefly about	DSDV and DSR routing algorithm.	10M