Visit our website: www.brainteaseracademy.com



Brain Teaser Academy

We care your Future







Follow us : Brain Teaser Academy

JAMMU & KASHMIR BOARD OF TECHNICAL EDUC TION M.I-22 Act: Installation, Maintenance & Troubleshooting of Computer Networks Branch: Computer E Semester: 6th Scheme: New M. Marks: 100 Instructions: 1. Attempt any Five Questions. 2. Figure: to the right indicate marks. Explain bruefly prevent e and corrective maintenance? What do you understand by site Q1. prepara' on? Q2. Explain: D. Switches [4:5] A. LAN Failure C. Bridge B. Hub Describe power supply requirements of computer and peripherals? What do you Q3. [20] understand by "grounding shielding"? Explain in detail the 2-Tier client server architecture? Q4. [20] What is Squid Proxy? Explain its functioning? Q5. [20] What do you understand by DNS? DOMAIN, Workgroup? Q6. Q7. A. What do you understand by access point configuration? [10x2] Briefly explain configuration of manageable switch? В. Q8. Explain: A Troubleshooting of Routers [10x2] B. Router configuration Explain different types of addressing used in computer network? Q9. Explain with the help of a Mitable diagram, TCP/IP model of networks Q10.

MJ-22 JAMMU & KASHMIR BOARD OF TECHNICAL EDUCATION Subject: Artificial Intelligence Semester: 6th Scheme: New Branch: Computer Engg. M. Marks: 100 Time: 03 Hours Instructions: 1. Attempt any Five Questions. 2. Figures to the right indicate marks. What do you understand by artificial Intelligence? List few applications of artificial Intelligence in games? 15 [20] Briefly explain architecture of a typical expert system with the help of a suitable diagram? What do you understand by State Space Representation? Explain the importance of "Search" in State Space Representation? [20] Mention some of the heuristic search techniques? Explain any one of the heuristic search technique with the help of a suitable example? [20] What are the different data types in PROLOG? Explain briefly? [20] What is an expert system? Explain its characteristics? Q7.(A) What is Knowledge Representation in Al? Name the techniques involved it. * cwled (Representation? [20] What do you understand by semantic network with examples? What is distributed AI? Mention few examples of AI in our everyday lives? [20] [20] Explain the role of Al in the fight against Covid-19? QO: Explain briefly the evolution of AI & list few issues of AI in games? [20]

MJ-22 JAMMU & KASHMIR BOARD OF TECHNICAL EDUCATION Semester: 6th Branch: Computer Engg. Subject: Network Security (Elective-II) Time: 03 Hours M. Marks: 100 - Scheme: New Instructions: ittempt any Five Questions. igures to the right indicate marks. What do you understand by Network Security? Difference between internal & external _attacks in security? 11000 17 Q2. State the advantages of cyber laws in internet security? Why do we need to secure a computer Network? Q3. Explain: A. Encryption B. Decryption C. Symmetric Key [4x5] D. Asymmetric Key What do you understand by Cryptography? Explain Piracy, Copyrights, IPRS? [20] [20] Q5. Explain briefly SSL? What do you understand by hashing? Q6. Explain: A. Active Attack B. Passive Attack C. Denial of Service [4x5] D. Phishing Attacks [20] What is a firewall? Explain the types of firewalls? Q7 Briefly explain Intrusion Detection system? Mention some of the limitations of Int 08 Detection systems? Explain the steps involved in configuring a VPN Network? Define Vulnerability? [20 Define Disaster? What are the categories of Disaster? Discuss? Q10.

J & K BOARD OF TECHNICAL EDUCATION

Semes	ster: 5 th	Bran	ch: Compi	uter Engineering
	ct: Advance Data Base Management Sy	ortom Di uii	cii. comp.	Scheme: New
Time :	3 Hrs Session:ND			M.M.: 100
	Sessional Property of the Prop	44	C. 1000 S	(A) (A) 特别 (A)
Note:	- Attempt any five Questions. All Ques	tions carry e	aual mark	rs.
Q1.	What do you understand by DATA Ind			
	of Normalization?	ependence:	Differry CA	(20)
Q2.	What do you understand by Data Mod	els? Explain?		(20)
Q3.	What do you understand by Distribu	ited databa	ses? Wha	t are the various
	types of distributed database systems			(20)
Q4.	Explain:			
	a) Data definition language b) So	calar function	ns with res	spect to DDL
	c) Null values w.r.t DDL d) A	ggregate fun	ctions w.r	t DDL (20)
Q5.	What do you understand by Data Mar	ipulation lan	guage? Ex	plain the working
	of a join operator with the help of an e	example?		(20)
Q6_	Explain the concept of Triggers?			(20)
Q7.	What do you understand by Indedisadvantages of views?	exes? What	are the	
Q8.	Explain the terms given below with the	halp of ava	malor	(20)
				atement (20)
Q9.	Explain:	Statement	X Willie St	decine (20)
	a) Object Definition Language.	b) Object	Query lar	nguage
	c) Object Relational Systems	d) SQL3		(20)
Q10.	What do you understand by backup 8		vith respe	
	SQL server? Also explain steps to insta	II SQL Serve	r?	(20)
				(20)

J & K BOARD OF TECHNICAL EDUCATION

ROLL No:64486

IVIJ23

Semester:-6th (New)

Branch:- COMPUTER ENGINEERING

Subject: ARTIFICIAL INTELLIGENCE

Max Marks:-100

Time: 03 Hours

Note:- Attempt any five Questions. Other Define Artificial Intelligence. Explain the history and application areas of Al	(15)	~0
DEXplain State Space representation of any Al problem.	(05)	
Explain the Minimax search with example.	(12)	
(by volain the importance of Heuristic Search in Al problem solving.	(08)	100
133a) Define expert systems. What are the components of an expert system? Ex	plain (12)	
	(08)	20
What are the various characteristics of an Expert System?		
O412+Explain Information and knowledge in Al. What are the various issues in	(12)	
knowledge representation?	(08)	
Describe the different types of users and their role in an expert system.		
Define knowledge representation. What are the various knowledge		
depre an lation methods? Explain		
st and explain the components of a Robotic System	(10)	
tate and explain the latest development trends in Admicial	(10)	
at A Lea natural lannuarié undérsideutins	aues?	
(37(a) What are the various Robots developed using artificial intelligence technical which are the various Robots developed using artificial intelligence technical ways are the various Robots developed using artificial intelligence technical ways are the various Robots developed using artificial intelligence technical ways are the various Robots developed using artificial intelligence technical ways are the various Robots developed using artificial intelligence technical ways are the various Robots developed using artificial intelligence technical ways are the various Robots developed using artificial intelligence technical ways are the various Robots developed using artificial intelligence technical ways are the various Robots developed using artificial ways are the various Robots developed using a transfer a	(12)	
	(08)	
(b) What are the various applications of Expert systems? Explain	(10)	
O8(a)Explain the structure of a PROLOG program	5 (10)	
(b)With the nelp of an example, explain how to represent rules, facts and goal	(10)	
goga Explain data types in PROLOG	(10)	
Evolum the term distributed artificial swelligence	10=20	20
A CONTRACT OF THE CONTRACT OF		
of Predicate Logic b) Natural language understanding of an game player		
and amended Networks		

J AND K BOARD OF TECHNICAL EDUCATION

and the second second

MJ23

ROLL No: 64483

Semester:-6 th (New) Branch:- COMPUTER ENGINEERII	NG /IT
Subject:- VISUAL PROGRAMIVING USING .NET	
Max Marks:-100 Time: 03 Hours	
Note:- Attempt any five Questions. All Questions carry equal marks.	
	1000
Q1 / What is VB .Net? Explain the main features of VB .Net.	[5,5]
Describe the five different types of variables used in VB .Net with examples.	[2x5]
Q2: Define	
Common Language Runtime(CLR) (5) Common Type System (CTS)	
Common Language Specifications (CLS) (A) Microsoft Intermediate Language (MSIL)	[4x5]
Q3: a) What is an IDE in the context of VB .Net?	[10]
b) List and briefly explain the key components of the Visual Studio IDE for VB. Net develop	[10]
Q4: a) Explain Sub Procedure, function in context of VB .Net	[10]
b) Explain difference between ByVal and ByRef with the help of example.	[10]
a) Discuss the importance of exception handling in VB .Net.	[10]
Explain the try-catch-finally block and its role in exception handling with an example.	[10]
Q6: a) What are control structures in VB .Net?	[10]
 b) Compare and contrast the If-Then-Else and Select Case statements in VB .Net with suit examples. 	able [10]
Q7: Explain the concept of database connectivity in VB .Net.	[10]
b) Discuss the steps involved in connecting to a database and performing select query.	[10]
Q8: a) What are event handlers in VB .Net?	[10]
b) List four event handlers and four property of any three controls in VB .Net and explain use them.	how to
Og: Explain what is Crystal Reports and how to connect them to a database?	[10]
b) Explain Request and response object in Asp dot net and their uses.	[10]
Q10: Explain web service and list steps to create a web service	[10]
Explain three tier Client Server architecture	[10]





PDF Reader





Class: 6TH Semester

Branch: Elect/ Mech/ Auto/ WT/ T&T/ FT/ E&C/ ME/ Comp/ IT/ Arch/ I&C/ GT

Subject: Basics of Management

Time: 3 Hours

M. Marks: 100

Scheme: New

Note: Attempt any five questions. All questions carry equal marks.

1	Define the term Management. State its features. How does Management differ from Administration?	20
2(a) Describe the organization structure suitable for large sized organization.	10
2(b	Explain the methods of improving motivation in an organization.	10
3	Explain in detail the code of professional ethics.	20
4	What is Leadership? Discuss the need and importance of leadership in management of business organization.	20
5	Define and explain the salient features of Factory Act 1948.	20
6(a)	Define Preventive maintenance. What are the objectives of preventive maintenance?	10
6(b)	Explain briefly the terms: patents and copyrights	10
7	"Success or failure of a consumer is directly related to Pricing Decision." Comment. Explain nature and importance of cost- benefit analysis.	20
3	Explain in detail Excise duty and custom duty	20
9	Explain the need and importance of Customer Relationship Management	20
.0	Explain in detail the concept of Quality Assurance.	20

Scanned by Scanner G

ROLL No:

Semester:-6th (New)

Branch:- INFORMATION TECHNOLOGY

Subject:- Advanced Database Management Systems

Max Marks:-100 Time: 03 Hours

ATTEMPT ANY FIVE QUESTIONS, ALL QUESTINS CARRY EQUAL MARK

- Q1. What do you mean by data models. Explain various data models. (20 marks)
- Q2. What is Database Normalization? Explain first, second and third normal forms with the help of suitable examples. (20 marks)
- Q3. What is distributed database, describe advantages and disadvantages of distributed databases. (20 marks)
- Q4. Explain various types of data fragmentation techniques with suitable examples.
 (20 marks)
- Q5. (A)Explain the concept of object identifier (OID) in ODBMS. (10 marks)

 (B) What is a type constructor, what are various type constructors in ODBMS. (10 marks)
- Q6. Write a short note on SQL management studio? Write down various steps involved in installing the SQL server. (20 marks)
- Q7. (A) Explain various DDL commands in SQL with the help of suitable examples.
 (10 marks)
 - (B) What are aggregate and scalar functions in SQL with the help of examples, what is the effect of null values on the outcome of aggregate functions. (10 marks)
- Q8. What do you understand by Data Manipulation Language. Explain insert, update delete and select statements with the help of suitable examples. (20 marks)
- (A)What are triggers? Differentiate between before and after trigger with example.

 (10 marks)

(B) What are views? How can it be created? Explain with the help of example.

(10 marks)

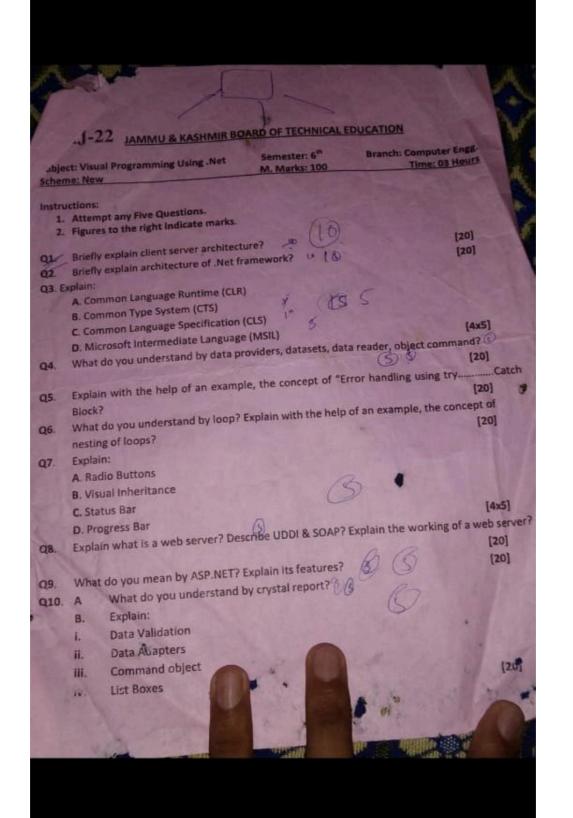
xplain the use of following in SQL:

A)IF statement

(B) While Statement

) try and catch statements (D) Stored Procedures

(4x5 mar)



J & K BOARD OF TECHNICAL EDUCATION

ROLL No:64486

MJ23

Semester:-6" (New)

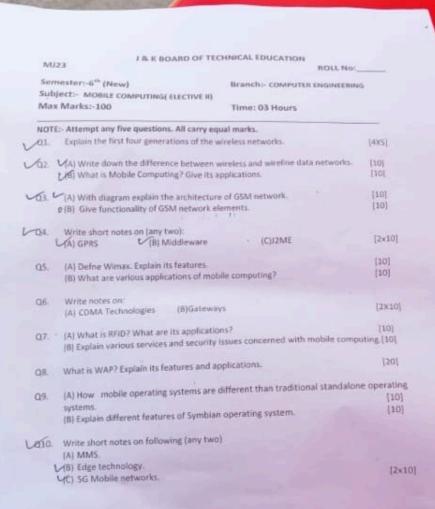
Branch: COMPUTER ENGINEERING

Subject: ARTIFICIAL INTELLIGENCE

Time: 03 Hours

Max Marks::100 Note:- Attempt any five Questions.

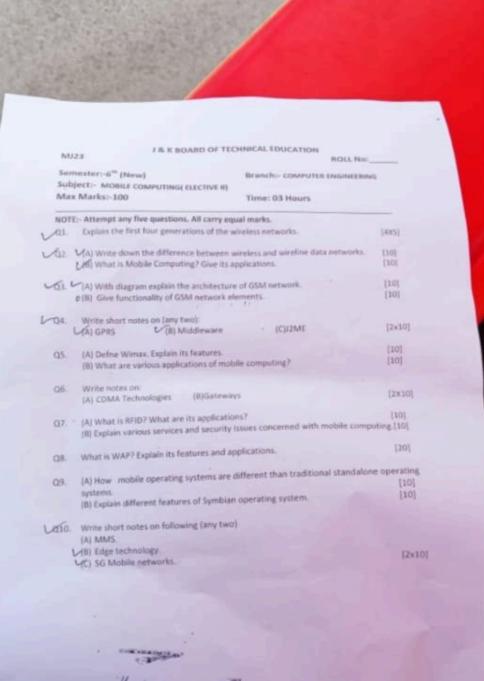
O'Let Define Artificial Intelligence. Explain the tensory and application areas of At (15) interplain State Space representation of any Al problem (12) OZLAT Explain the Minimax search with example. xplain the importance of Heuristic Search in Al problem solving (05) 40 13(a) Define expert systems. What are the components of an expert system? Explain (12) What are the various characteristics of an Expen System? (08) Evolute information and knowledge in Al. What are the various institute in knowledge representation? ET Describe the different types of users and their role in an expert system. Define knowledge representation. What are the various knowledge hate and explain the latest development hends in Arbicol interrolines (b) Explain the role of At in natural language understanding (10) Offiai What are the various Robots developed using artificial intelligence techniques (12) (b) What are the various applications of Expen systems? Explain (80) (10) O8(a)Explain the structure of a PROLOG program (b)With the nelp of an example, explain how to represent rules, facts and goals. (10) OgniExplain data types in PROLOG Frolim the form distributed artificial a deligence 125104201.99



JAMMU & KASHMIR BOARD OF TECHNICAL EDUCATION

Semester: 6th **Branch: Computer Engineering** Subject: Artificial Intelligence Scheme: New Session: ND22B6SCE M.M.: 100 Note:- Attempt any five Questions. All Questions carry equal marks. Define the term Artificial Intelligence. What are the application areas of artificial intelligence? What are heuristic search techniques? Using example, explain best first Explain expert systems. State and explain the various components of an // expert system? Q4. What is state space representation? Explain with an example? (20) Q5. What is knowledge representation? Explain the knowledge representation Q6. Explain the role and importance of expert knowledge engineer and user in Q7. How are rules represented in PROLOG? Explain the statements used in PROLOG with examples? (20)Explain the concept of Distributed Artificial Intelligence. What are its What are the features of PROLOG? With the help of an example explain the structure of PROLOG program? Q10. What are the current State of the art developments in Artificial Intelligence? (20)





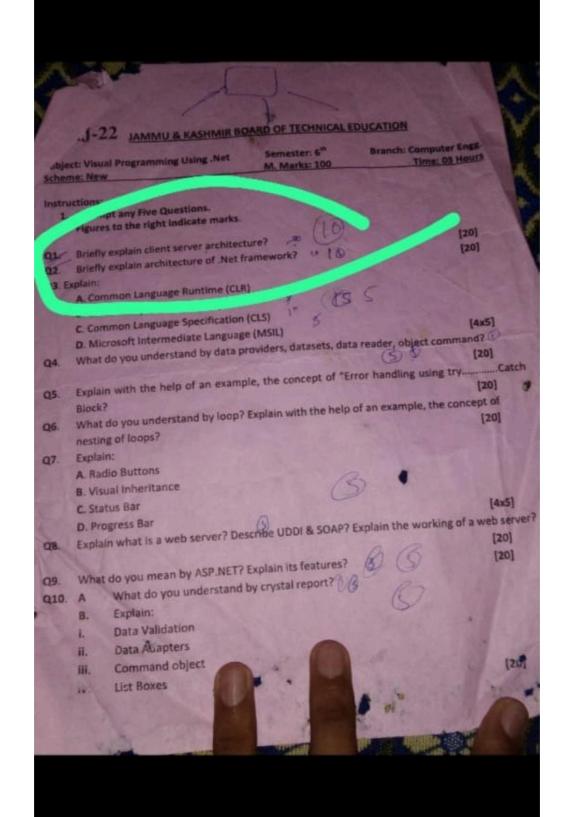
Filters

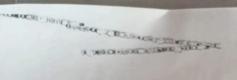


Add a caption...









J AND K BOARD OF TECHNICAL EDUCATION

MJ23

ROLL No:

Semester:-6th (New)

Branch:- COMPUTER ENGINEERING

Subject: INSTALLATION, MAINTENANCE AND TROUBLESHOOTING OF COMPUTER NETWORKS

Max Marks:-100 Time: 03 Hours

Note:- Attempt any five Questions. All Questions carry equal marks.

Explain with the help of a diagram the TCP/IP model of networking

02-(A) Explain different steps involved in installation of computer systems and peripheral devices in a computer lab.

(B) Explain different environmental requirements for a computer lab.

Q3. At Explain the preventive and corrective maintenance measures for a computer Lab. (8) Explain importance of grounding and shielding in a workstation.

Q4. Explain following terms:

(A) DNS

(B) DOMAIN (C) IP Address

(D) Work Group

Q5. Jarexplain 3-Tier Network Architecture of a network. (B) Explain different steps involved in creating a workgroup.

ed in troubleshooting of a Router

Esplain in detail the power supply requirements and considerations for computer and its periphe Q8. Explain the benefits of sharing devices on a network. Write down different steps involved in sharing a printer on a network.

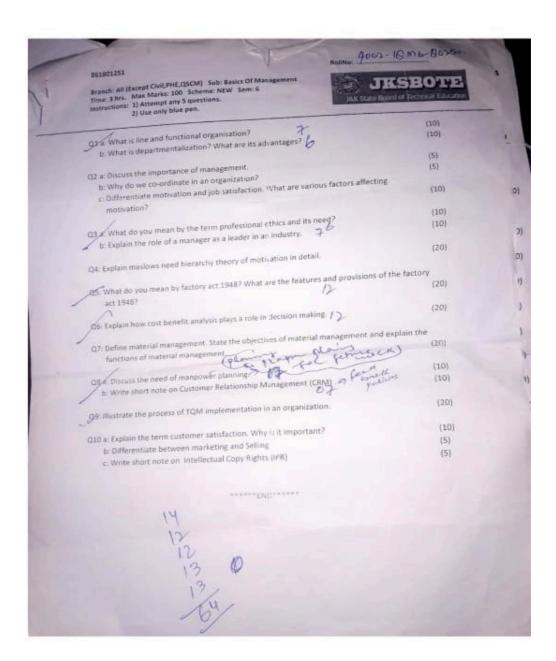
Q9. What is sub-netting? Subnet any class C IP address into 4 subnets.

Q10. Write short notes on:

(A) Access Point Configuration

(B) Address Management

Page: 879



Scanned by CamScanner

J & K BOARD OF TECHNICAL EDUCATION

MJ23

ROLL No:

Semester:-6th (New)

Branch:- COMPUTER ENGINEERING

Subject:- ARTIFICIAL INTELLIGENCE

Max Marks:-100

Time: 03 Hours

Note:- Attempt any five Questions.

		(10) #
b) Write short note on: i) MinMax Search	ii) Natural Language Understanding	(10)
OF a) What is Artificial Intelligence	e. Explain the various application of Artificial Intelligence?	
b) Explain in brief history of Ar	tificial Intelligence?	(10)
Q3. a) What is Hill Climbing Search b) Differentiate between Brea	h .Discuss the various problem of Hill Climbing ? ddth First Search (BFS) and Depth First Search (DFS)?	(10) (10)
94. a) What is an Expert System. E b) Explain the various steps to	Explain the Architecture of an Expert System? built an Expert System?	(10) */
Q5. What is Knowledge Representa	ation. Explain the various techniques of knowledge Repres	entation?
Q6. Convert the following stateme	ents into logical Representation:	-
1. If I will go to Australia, then I w		
2. He goes to play a match if and		
3. He is poor but honest.	The second secon	
Every man respects his parent.		
Not all students like both Math	ematics and Science.	
5. Some boys play cricket.		
7. We will leave whenever he com	nes.	
3. Not every animal dislikes honey		(20)
27. a) What is Prolog. Explain the va	arious datatypes of Prolog?	(10)
b) Write short note on	and analypes of Fronch	(10)
1. Facts 2. Rules	3. Atoms	
28. a) What is Robotics. Explain the	various components of Robotics System?	(10)
b) Explain distributed Artificial I		(10
(9. a) Explain the various current d	evelopments in Artificial Intelligence?	(10)
b) Differentiate between Know	ledge and information?	(10)
	plain A* Search with the help of an example?	(10)
10 a) What is Hauristin Search Ev	nisin A. Coarch with the neib of all countries	(10)

RND225SCE

J & K BOARD OF TECHNICAL EDUCATION

	mester: 5 th bject: Advance Data Base Manage	E	Branch: Compute	
		sion:ND22		Scheme: New
2.032				M.M. ; 100
Not	e:- Attempt any five Questions. A	III Questions car	ry equal marks	
Q1.	What do you understand by D.	ATA Independer	ice? Briefly exp	lain the concept
-	of Normalization?			(20)
02.	What do you understand by Da	ta Models? Expl	ain?	(20)
Q3.	What do you understand by	Distributed dat	abases? What	are the various
	types of distributed database sy	ystems?		(20)
Q4.				
	a) Data definition language		ctions with resp	
	et Null values wirt DDL	d) Aggregate	functions w.r.t	DDL (20)
or.	What do you understand by Da	ta Manipulation	language? Exp	plain the working
Q5.	of a join operator with the help	of an example?		(20)
-				(20)
Q6.	Explain the concept of Triggers What do you understand by	u Indexes? W	hat are the	advantages and
Q7.		y muckes: w	ildt die tile	(20)
-	disadvantages of views? Explain the terms given below	with the hale of	ovamoles	1207
QS.			nt & While Sta	tement (20)
00	a) Try and Catch Statements	b) ii stateme	iit or writing ara	terrierit (20)
Q9.	Explain:	1100		
	a) Object Definition Language.		ect Query lang	uage
	c) Object Relational Systems	d) SQL		(20)
210.	What do you understand by bar	ckup & recover	with respect	of installation of
	SQL server? Also explain steps to	install SQL Ser	ver?	(20)

RND225SCE

J & K BOARD OF TECHNICAL EDUCATION

Semester: 5th **Branch: Computer Engineering** Subject: Advance Data Base Management System Scheme: New Time: 3 Hrs M.M.: 100 Note: Attempt any five Questions. All Questions carry equal marks. What do you understand by DATA Independence? Briefly explain the concept of Normalization? What do you understand by Data Models? Explain? (20) What do you understand by Distributed databases? What are the various Q3: types of distributed database systems? 04. Explain: b) Scalar functions with respect to DDL a) Data definition language d) Aggregate functions w.r.t DDL (20) c) Null values w.r.t DDL What do you understand by Data Manipulation language? Explain the working Q5. of a join operator with the help of an example? (20)(20) Explain the concept of Triggers? Q6. What do you understand by Indexes? What are the advantages and Q7. (20) disadvantages of views? OS. Explain the terms given below with the help of examples: a) Try and Catch Statements b) If Statement & While Statement (20) Explain: Q9. a) Object Definition Language. b) Object Query language c) Object Relational Systems d) SQL3 (20) What do you understand by backup & recovery with respect of installation of SQL server? Also explain steps to install SQL Server? (20)

8618010234

Branch: Computer Sub: Installation, Maintenanc≅ and Troubleshooting of Computer Networks

Time: 3 hrs. Max Marks: 100 Scheme: New Sem: 6

Instructions: 1) Attempt any Five questions

2) Use only blue pen.



Q1: How are Sites for Computer Systems/Labs Prepared and designed. Also write in detail	Table 1
preventive maintenance of computer systems.	about the (20)
Q2: What is troubleshooting? Discuss the various steps involved in troubleshooting?	(20)
b What are Bridges explain the advantages and diadvantages of Network Bridges	(10) (10)
Q4a) Differentiate between:	
i) Domain and workgroup ii) Switch and Hub. b) Explain the different types of addressing used in computer network?	(10) (10)
Explain in detail the TCP/IP model of networking.	(20)
Q6 a) What are I/O channels .Explain the different types of I/O channels? b) Explain the working of DNS.	(10) (10)
Q7: What is Squid Proxy? Explain in detail its functioning.	
QBsf Explain 2-tier and 3-tier network architecture ? (b) Write short note on (a) VSAT (b) PSTN (c) Leased line.	(10) (10)
Q9 ar What is Sub-netting? What is the need of sub-notting the network .Explain Subnet mas	k in detail.
b) What are routers. Explain the various commands used for configuring a router?	(10) (10)
of 0 a) Describe some of the standard symbols to create floor layout ? b) Explain different types of networking cables in detail ?	(10) (10)

******END

PDF Reader





Name 4003-161	OL-Bross	
	The state of the s	400
BELLEGIZSI	POTTE	4
Bisants All (Except Civil,PHE,CISCM) Sub: Basics Of Management granuls: All (Except Civil,PHE,CISCM) Sub: Basics Of Management granuls: All Except Civil,PHE,CISCM) Sem: 6 Time: Bisants All Assemble are 5 questions. Instructions: 11 Assemble blue pen.	ectysol Educator	
Instructions: 1) Allower pen. 2) Use only blue pen.	(10)	
A Continued organization?	(10)	The Roll of
what is line and functional organisation? b What is departmentalization? What are its advantages? 6		2
	(5)	
Q2 at Discuss the importance of management.	(5)	
02 at Discuss the importance in an organization? b: Why do we co-ordinate in an organization. What are various factors affecting		
b: Why do see co-ordinate in an organization? c: Differentiate motivation and job satisfaction. What are various factors affecting	(10)	(0)
motivation?	100000	
motivated?	(10)	
Q3 What do you mean by the term professional ethics and its need?	(10)	2)
b: Explain the role of a manager as a leader in an industry.		-
A Elithan on the	(20)	0)
Q4; Explain meshoes need hierarchy theory of motivation in detail.		104
Q4: Explain the real provisions of the fa	ctory	
Q4: Explain mestices need to the factory act 1948? What are the features and provisions of the factory act 1948? What are the features and provisions of the factory act 1948? What are the features and provisions of the factory act 1948?	(20)	1)
act 1945!		
	(20)	1
25: Explain how cost benefit, analysis plays a role in decision making. /)		
25 Expansion and explain	a the	10
Q7: Define material management. State the objectives of material management and explain	(20)	
functions of material management		7
	(10)	
Ope Discuss the need of manpower planning Community of	(10)	1)
b. Write short note on Customer Relationship Munagement (CRM)		
A second section of the	(20)	
Qui Mustrate the process of TQM implementation in an organization.		
	(10)	
Q10 a: Explain the term customer satisfaction. Why is it important?	(5)	
a-nifferentiate between marketing and second	(5)	
c: Write short note on Intellectual Copy Rights (IPR)	131	
and the state of t		

14		
10		
17		
13 0		
17,		
10		
W.		

Scanned by CamScanner

← IMG-20190512-WA0007



ME1802132

Branch: Computer Engineering Sub: Installation, Maintenance & Troubleshooting of Computer Networks Time: 3 brs. Max Marks: 100 Scheme: New Sem: 6

instructions: 1) Attempt any 5 questions.

2) Use only blue pen.



Qnol a Discuss the points to be kept in mind while installing the computer system.

b'What are the essentials of design of a computer room?

Qno2 a Differentiate between preventive maintenance and corrective maintenance.

b: What are the installation steps required while installing a printer?

Qno3 a: What are the environmental requirements of computer system and peripherals during installation?

b: What are bridges? Explain the advantages and disadvantages of network bridges.

Qno4 a: Differentiate between:-

- (A) Domain and Workgroup
- (B) Switch and Hub

b: Explain the different types of addressing used in computer network.

Qno5 a: Explain the domain name system (DNS). Discuss the main objective of using DNS.

b: Explain client server technology. List the advantages and disadvantages of client server technology.

Qno6 a: Explain various services used to manage computer networks.

b: What do you understand by the term "grounding"? Explain the various types of grounding.

Qno7 a: Write short note on the following:-

- (A) IPAM (ip address management)
- (B) Access point
- (C) LAN cards

b: What are the reasons of LAN failure? How will you manage them?

Qno8 a: Explain different types of networking cables in detail.

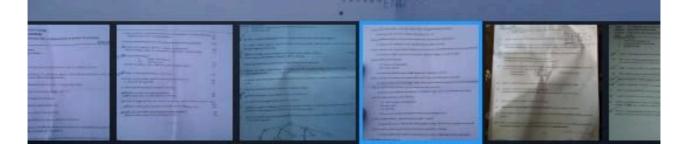
b: Explain the various methods of shielding used to protect the electronic equipment from EMI.

Qno9 a: what are I/O channels? Explain the different types of I/O channels.

b: Explain peer-to-peer network model. Also list its various advantages and disadvantages.

Qno10 Write Short notes on

- Trouble shooting of computers
- II) PC Specifications



LNO. : 2207-16M6-31611

8

SS : 6TH SEMESTER (NEW SCHEME).

NCH : COMPUTER ENGINEERING.

ECT : INSTALLATION, MAINTENANCE AND TROUBLESHOOTING OF COMPUTER NETWORKS.

: 3 HRS. MAX. M

tions for candidate:-

I. ATTEMPT ANY FIVE QUESTIONS.

II. ALL QUESTIONS CARRY EQUAL MARKS.

II. USE BLUE PEN ONLY.

Explain in detail about preventive and corrective maintenance of computer systems.

What are the different specifications for a computer system that should be considered while punew system and how their value affects the performance?

Explain in detail the differences between hub, switch, bridge and router.

What is DNS? Explain in detail the working of DNS on internet.

Explain in detail the TCP/IP model of networking.

Explain in detail the 3-tier client-server architecture.

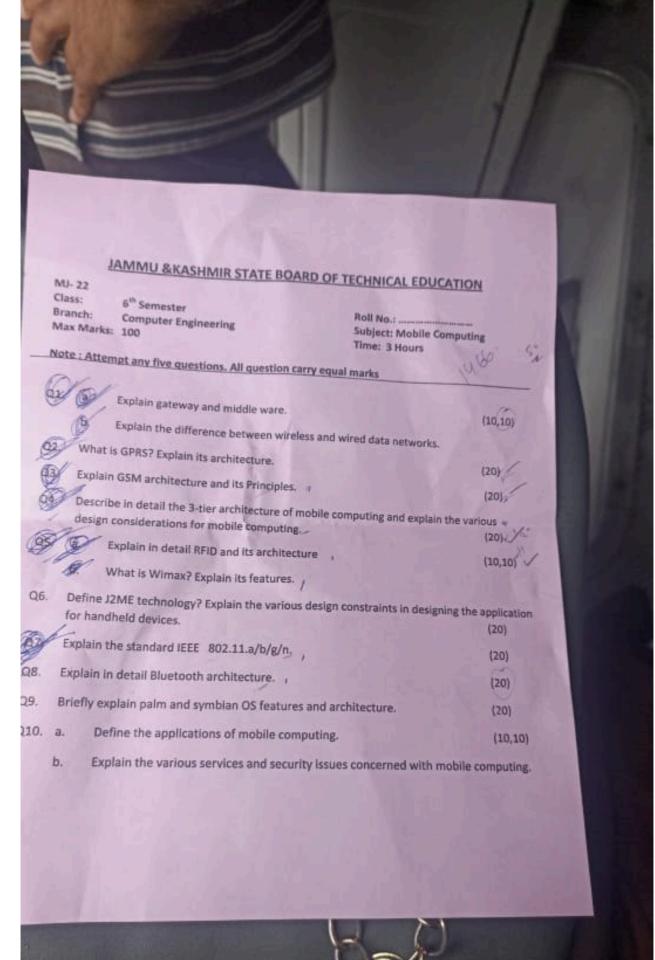
What is Squid Proxy? Explain in detail its functioning.

Explain in detail the functions of Data link layer in computer networks.

What is an IPv4address? What are its different classes and how they are designed? Calculate an ange of IP addresses of different classes of IP addresses.

What is a manageable switch and how is it different from other types of switch. What are the viconfiguration parameters that can be configured in the manageable switch?

....



ROLL NO. : 3160

861601349

CLASS : 6TH SEMESTER (NEW SCHEME). BRANCH : COMPUTER ENGINEERING.

SUBJECT: INSTALLATION, MAINTENANCE AND TROUBLESHOOTING OF COMPUTER NETWORKS.

TIME :3 HRS. MAX. MARKS: 100

Instructions for candidate:

- ATTEMPT ANY FIVE QUESTIONS.
- IL ALL QUESTIONS CARRY EQUAL MARKS.
- III. USE BLUE PEN ONLY.

Of. Explain in detail about preventive and corrective maintenance of computer systems.

- Q2. What are the different specifications for a computer system that should be considered while purchasing a new system and how their value affects the performance?
- Q3. Explain in detail the differences between hub, switch, bridge and router.
- Q4. What is DNS? Explain in detail the working of DNS on internet.
- QS. Explain in detail the TCP/IP model of networking.
- Q8. Explain in detail the 3-tier client-server architecture.
- Q7. What is Squid Proxy? Explain in detail its functioning.
- Q8. Explain in detail the functions of Data link layer in computer networks.
- 29. What Is an IPv4address? What are its different classes and how they are designed? Calculate and write the range of IP addresses of different classes of IP addresses.
- What is a manageable switch and how is it different from other types of switch. What are the various configuration parameters that can be configured in the manageable switch?

.....

M.J-22 JAMESU & KASHMIR BOARD OF TECHNICAL EDUCATION

Subject: Installation, Maintenance & Troubleshooting of Computer Networks Time: 03 Hours M. Marks: 100 Schemer New

Instructions:

557

N is

dants

single k. The ole for system works

royider ions in

Line Unlike monthly to speed e carrier nnection metimes services because

- 1. Attempt any Five Questions.
- 2. Figures to the right indicate marks.
- Q1 Explain briefly preventive and corrective maintenance? What do you understand by site preparation?
- D. Switches (4x5) C. Bridge 02 Explain: B. Hub
- Describe power supply requirements of computer and peripherals? What do you understand by "grounding shielding"? 03. 1201
- (20) Explain in detail the 2-Tier client st 04.
- What is Squid Proxy? Explain its functioning? (20) What do you understand by DNS? DOMAIN, Workgroup? QS.
- Q7. A. What do you understand by access point configuration? [10x2]
- Briefly explain configuration of manageable switch?
- 8. [10x2] A. Troubleshooting of Routers Explain: Q8
 - [20] B. Router configuration
 - Explain different types of addressing used in computer network? Q10. Explain with the help of a suitable diagram, TCP/IP model of networking? [20]

starting at 128 Kbps, reduce this cost somewhat and can be found in some apartment buildings

J & K BOARD OF TECHNICAL EDUCATION

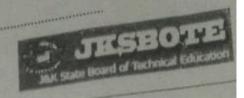
IVIJ23 ROLL No: Semester:-6th (New) Branch:- COMPUTER ENGINEERING Subject:- MOBILE COMPUTING(ELECTIVE II) Max Marks:-100 Time: 03 Hours NOTE:- Attempt any five questions. All carry equal marks, Q1. Explain the first four generations of the wireless networks. [4X5] Q2. MA) Write down the difference between wireless and wireline data networks. [10] [10] (M) What is Mobile Computing? Give its applications. [10] (A) With diagram explain the architecture of GSM network. [10] o(B) Give functionality of GSM network elements. L-04. Write short notes on (any two): [2x10] (B) Middleware (C)J2ME WA) GPRS [10] (A) Defne Wimax. Explain its features. [10] (B) What are various applications of mobile computing? Write notes on: Q6. [2X10] (B)Gateways (A) CDMA Technologies Q7. (A) What is RFID? What are its applications? (B) Explain various services and security issues concerned with mobile computing.[10] What is WAP? Explain its features and applications. Q8. (A) How mobile operating systems are different than traditional standalone operating Q9. [10] (B) Explain different features of Symbian operating system. (210. Write short notes on following (any two) (A) MMS. V(B) Edge technology. [2x10] UC) 5G Mobile networks.

Rollno:

86190186

granch; Computer Engineering Sub: Mobile Computing Time: 3 hrs. Max Marks: 100 Scheme; New Sein: 6 Instructions: 1) Attempt any 5 questions.

2) Use only blue new



2) Use only blue pen.	(10)	
Qno2 a: Define gateway. How gateways are used in networks? • b: Bring out the difference between wireline and wireless data networks. • Qno2 Describe in detail the 3-tier Mobile Computing Arcl. itecture and explain the various desi	(10) gn	100
considerations for Mobile Computing.	(20)	
Qno3 What is GPRS? Also explain its architecture.	(10)	
Qno4 a: What are the features of mobile computing? List various mobile computing devices.	(10)	
b: What is CDMA? Explain the CDMA technology in detail.	(10)	
Qno5 a: Explain any two 2G cellular standards.	(10)	
b: What is WiMAX? Explain its features.	(10)	1
Ono6 a: IPv6 is advanced addressing than IPv4. Explain. b: What is RFID? Explain it with the help of tagging.	(10)
*Qno7 Explain in detail WAP and MMS Protocols		
Qno8 a: Write the features of EDGE and 3G technology.	(10	2)
b: What is mobile middle ware? What are its types? Explain.	(1)	0)
Qno9 a: Explain the IrEc 802.11 or Chhecture.	(1	(0)
b: Give the features of palm and symbian operating system.	(2	10)
Qno10 a: Briefly explain J2ME technology.	(10)
b: What are the design constraints in designing handheld devices?		(10)

JAMMU & KASHMIR BOARD OF TECHNICAL EDUCATION

MJ-22 Subject: Basics of Management Semester: 6" Branch: Computer Engg. Scheme: New M. Marks: 100 Time: 03 Hours Instructions: 1. Attempt any Five Questions. 2. Figures to the right indicate marks. Q1. Define management also discuss its functions in detail? [20] Explain the management of men, materials & machinery in an organization? Q2. [20] Define culture in relation to management, briefly explain the pillars of organization culture? Q3. [20] How are qualities of an effective leader connected with effective motivation management? Q4 [20] State and explain the necessity of industrial laws? Q5. [20] Name & explain the various methods employed for training workers? Q6. [20] What do you mean by marketing? Also state the objectives of market research? [20] Q7. What do you mean by patent? Describe the advantages of patent to the behavior? Q8. [20] Write down the procedure for registration of a trade mark. State the functions of tra Q9. mark? What do you mean by ethics in business. Also explain main functions of social conduct? 210

552636839

highest power Blokes

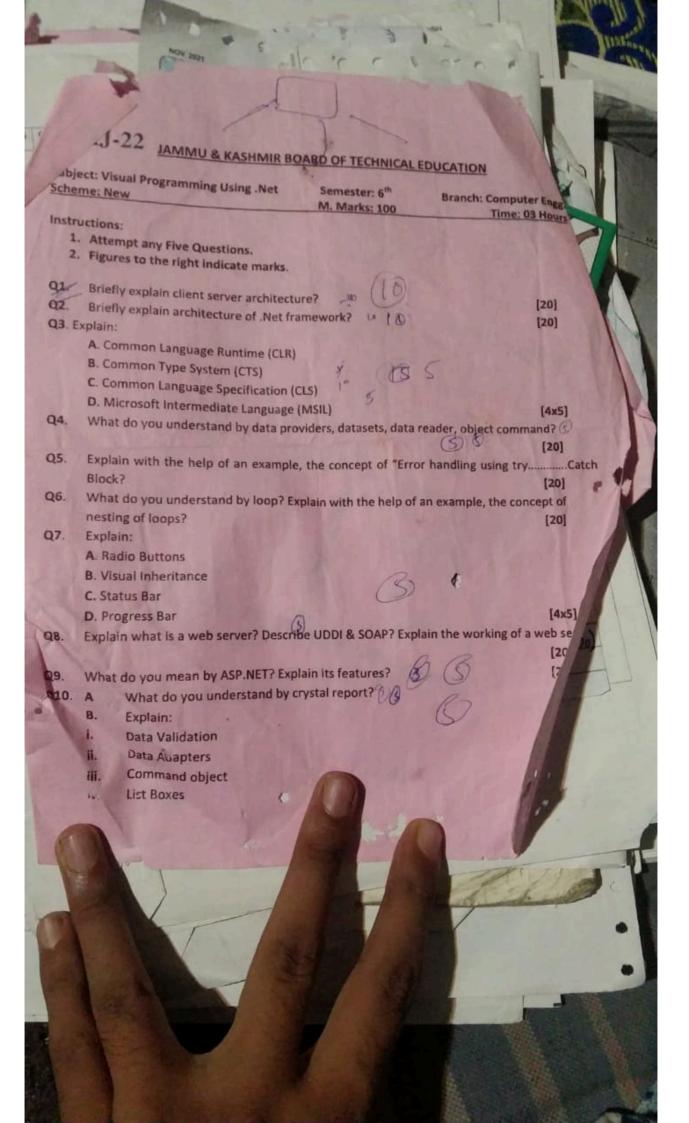
MJ-22 JAMMU & KASHMIR BOARD OF TECHNICAL EDUCATION

Subject: Artificial Intelligence Semester: 6th Branch: Computer Scheme: New M. Marks: 100 Time: 03 I Instructions: 1. Attempt any Five Questions. 2. Figures to the right indicate marks. Crances 333 What do you understand by artificial Intelligence List few applications of artificial Intelligence in games? Briefly explain architecture of a typical expert system with the help of a suitable diagr [20] What do you understand by State Space Representation? Explain the importance of Q3. "Search" in State Space Representation? [20] Mention some of the heuristic search techniques? Explain any one of the heuristic sea technique with the help of a suitable example? What are the different data types in PROLOG? Explain briefly? [20 What is an expert system? Explain its characteristics? [20 Q7.(A) What is Knowledge Representation in AI? Name the techniques involved in Knowledge Representation? What do you understand by semantic network with examples? (B) [20] What is distributed AI? Mention few examples of AI in our everyday lives? [20] Explain the role of Al in the fight against Covid-192 Q9. [20] Q10 Explain briefly the evolution of AI & list few issues of AI in games? [20]

CH_	
861801052	RollNo:
Branch: Computer Sub: Artificial Intelligence Branch: Computer Sub: Artificial Intelligence Time: 3 hrs. Max Marks: 100 Scheme: New Sem: 6 Time: 3 hrs. 1) Attempt any 5 questions. Instructions: 1) Use only blue pen.	JKSB0

what is Artificial Intelligence and how it has impacted/will impact the world.	(20)
Q2 a: Write a short note on natural language processing	(5)
b: What are the various issues of AI?	(5)
c: What are the different search processes in artificial intelligence? Write algorithm for be	st first
search?	(10)
Q3:a: Write short note on i) a* algorithm ii) heuristic search.	(10)
b) Explain hill climbing method in detail.	(10)
Q4: Use Prepositional Logic to Prove (D) from A,8 and C below: A: P→ (Q←→R)	(20
B:~(Q←→R)	
C:(S ∧ Q)→P	
D: ~P ∧ (S→~Q)	
(Truth Table Can Be Used For the Same)	
OS: Explain in detail the architecture of typical expert system.	(2)
Q6 a: What are the differences between information and knowledge?	(1
b: Explain semantic network using example.	(3
Q7: Write short note on the following: (a) propositional logic (b) first order predicate logic	(
Q8 a: Explain the current developments in robotics.	
b: What is robotics and components of robotic system?	
Q9 a: What are the various current developments in artificial intelligence besides robotic	s
b: Discuss the limitations of prolog.	
Q10: a: What are the data types used in prolog language.	

b: Discuss the structure of prolog.







PDF Reader





Class: 6TH Semester

Branch: Elect/ Mech/ Auto/ WT/ T&T/ FT/ E&C/ ME/ Comp/ IT/ Arch/ I&C/ GT

Subject: Basics of Management

Time: 3 Hours

M. Marks: 100

Scheme: New

Note: Attempt any five questions. All questions carry equal marks.

140	te. Attempt any me decommend to the	
1	Define the term Management. State its features. How does Management differ from Administration?	20
2(a	Describe the organization structure suitable for large sized organization.	10
2(b)	Explain the methods of improving motivation in an organization.	10
3	Explain in detail the code of professional ethics.	20
4	What is Leadership? Discuss the need and importance of leadership in management of business organization.	20
5	Define and explain the salient features of Factory Act 1948.	20
6(a)	Define Preventive maintenance. What are the objectives of preventive maintenance?	10
5(b)	Explain briefly the terms: patents and copyrights	10
,	"Success or failure of a consumer is directly related to Pricing Decision." Comment. Explain nature and importance of cost-benefit analysis.	20
	Explain in detail Excise duty and custom duty	20
1	Explain the need and importance of Customer Relationship Management	20
0	Explain in detail the concept of Quality Assurance.	20

Scanned by Scanner G



PDF Reader







: 6TH SEMESTER (NEW SCHEME) CLASS

BRANCH : MECH / ELECT / ME / E&C / COMP / IT / ARCH / AUTO / WT / T&T / FT / GT / I&C. SUBJECT : BASICS OF MANAGEMENT.

TIME : 3 HRS.

INSTRUCTIONS FOR CANDIDATE

MAX. MARKS: 1

- ATTEMPT ANY FIVE QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS.
- USE BLUE PEN ONLY.
- Q1 Define 'Management'. Explain the functions of management.
- Q2 Define 'Values'. What is the importance of values? Explain the factors which affect the individual behaviour.
- (a) Sxplain the hierarchical management structure.
 - Differentiate between manager and leader. (b)
- Q4 Define 'Leadership'. What are its characteristics? Explain.
- Explain the salient features of Minimum Wages Act, 1948.
- Q6. Pefine 'Human resource development'. What are its objectives? Explain.
- Explain the steps involved in manpower planning process-
- Explain 'Just in time' concept. (a) Q8.
 - (b) Explain 'Total quality management.'
- Define 'Customer relationship management'. What are its functions? Explain. Q9.
- What is 'Inspection'? Describe the functions and objectives of inspection. Q10.

Scanned by Scanner 6

JAMMU & KASHMIR BOARD OF TECHNICAL EDUCATION

Branch: Computer Engineering Semester: 6th Subject: Artificial Intelligence Scheme: New Session: ND22B6SCE Time: 3 Hrs M.M.: 100 Note:- Attempt any five Questions. All Questions carry equal marks. Define the term Artificial Intelligence. What are the application areas of Q1. artificial intelligence? What are heuristic search techniques? Using example, explain best first (20) Explain expert systems. State and explain the various components of an Q3. (20) Q4. What is state space representation? Explain with an example? (20)Q5. What is knowledge representation? Explain the knowledge representation methods? (20)Explain the role and importance of expert knowledge engineer and user in expert systems? How are rules represented in PROLOG? Explain the statements used in PROLOG with examples? (20)Explain the concept of Distributed Artificial Intelligence. What are its (20)What are the features of PROLOG? With the help of an example explain the Q9. structure of PROLOG program? (20)Q10. What are the current State of the art developments in Artificial Intelligence? (20)

JAMMU & KASHMIR BOARD OF TECHNICAL EDUCATION Se ester : 6th Subject: Artificial Intelligence Branch: Computer Engineering Time: 3 Hrs Note:- Attempt any five Questions. All Questions carry equal marks Scheme: New M.M.: 100 Q1. Define the term Artificial Intelligence) What are the application areas of What are heuristic search techniques? Using example, explain best first state and explain the various components of an expert syst 207 Q4. What is state space representation. What is knowledge representation? (20) methods? wordge representation Explain the role and importance of expert knowledge ingineer and user in Q6, How are rules represented in PROLOG? Explain the statements used Q7. PROLOG with examples? Explain the concept of Distributed Artificial Intelligence. What Q8. advantages? 910 What are the features of PROLOG? With the help of an example (20) structure of PROLOG program? ole explain the Q10., What are the current State of the art developments in Africial Intelligence? Q10. Define Disk





PDF Reader







: 6TH SEMESTER (NEW SCHEME) CLASS

BRANCH : MECH / ELECT / ME / E&C / COMP / IT / ARCH / AUTO / WT / T&T / FT / GT / I&C. SUBJECT : BASICS OF MANAGEMENT.

TIME : 3 HRS.

INSTRUCTIONS FOR CANDIDATE:

MAX. MARKS: 1

- ATTEMPT ANY FIVE QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS.
- USE BLUE PEN ONLY.
- Q1. Define 'Management'. Explain the functions of management.
- Q2 Define 'Values'. What is the importance of values? Explain the factors which affect the individual behaviour.
- (a) Explain the hierarchical management structure.
 - Differentiate between manager and leader. (b)
- Q4 Define 'Leadership'. What are its characteristics? Explain.
- Explain the salient features of Minimum Wages Act, 1948.
- Q6. Pefine 'Human resource development'. What are its objectives? Explain.
- Explain the steps involved in manpower planning process-
- Explain 'Just in time' concept. (a) Q8.
 - (b) Explain 'Total quality management.'
- Define 'Customer relationship management'. What are its functions? Explain. Q9.
- What is 'Inspection'? Describe the functions and objectives of inspection. 010.

Scanned by Scanner 6

JAMMU & KASHMIR	BOARD OF TECHNICAL	EDUCATION	
MU-22 Subject: Basics of Management Scheme: New	Semester: 6 th	Branch: Compu	ter Engg.
	M. Marks: 100	Time: 03 Hours	
Instructions:		PATE OF	
Attempt any Five Questions. Figures to the right indicate mark	. 151	6 10	
Q1. Define management also discuss it		35 933	[20]
Q2. Explain the management of men,	materials & machinery in	an organization?	[20]
Q3. Define culture in relation to mana	gement, briefly explain th	e pillars of organiza	ition culture?
			[20]
Q4. How are qualities of an effective le	eader connected with effe	ective motivation r	nanagement?
			[20]
Q5. State and explain the necessity of i			[20]
26. Name & explain the various metho			[20]
7. What do you mean by marketing?	Also state the objectives	of market researc	h? [20]
 What do you mean by patent? Des 	cribe the advantages of	patent to the beha	vior?
			[20]
. Write down the procedure for re mark?	gistration of a trade m	ark. State the fur	ctions of tra [20]
What do you mean by ethics in bus	iness. Also explain mair	functions of soci	
The second second			[20]
			-1100
		652	36839 Bom
		1	Desp
			1900

es highest power Blokes

1461

[20]

[20]

MJ-22 JAMMU & KASHMIR BOARD OF TECHNICAL EDUCATION

Subject: Artificial Intelligence Semester: 6th
Scheme: New M. Marks: 100
Branch: Computer Engg.
Time: 03 Hours

Instructions:

- 1. Attempt any Five Questions.
- 2. Figures to the right indicate marks.
- What do you understand by artificial Intelligence? List few applications of artificial Intelligence in games? [20] Briefly explain architecture of a typical expert system with the help of a suitable diagram? Q2. [20] Q3. What do you understand by State Space Representation? Explain the importance of "Search" in State Space Representation? Mention some of the heuristic search techniques? Explain any one of the heuristic search Q4. technique with the help of a suitable example? [20] Q5. What are the different data types in PROLOG? Explain briefly? [20] What is an expert system? Explain its characteristics? [20] 27.(A) What is Knowledge Representation in Al? Name the techniques involved in Knowledge Representation? B) What do you understand by semantic network with examples? > [20] What is distributed AI? Mention few examples of AI in our everyday lives? [20]

Explain the role of AI in the fight against Covid-19?

18. Explain briefly the evolution of Al & list few issues of Al in games? -



