(b) Explain briefly the various factors elements. considered in the development of curved shell 0. be

24519

B. Tech. 7th Semester (Civil Engg.) Examination – December, 2016

FINITE ELEMENT METHODS

Paper: CE-417-F

Time: Three Hours]

[Maximum Marks: 100

complaint in this regard, will be entertained after examination. have been supplied the correct and complete question paper. No Before answering the questions, candidates should ensure that they

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

- 1. (a) Explain the term 'Shape Functions'. polynomial terms are preferred for shape functions in finite element method? Why
- (b) Discuss the advantage and disadvantages of FEM over: 10
- (i) Classical method
- (ii) Finite difference method

24519-1550-(P-4)(Q-8)(16)

24519-1550-(P-4)(Q-8)(16)

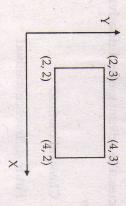
(4)

3. Determine using any weighted residual techniques the temperature distribution along a circular fin of length of 6 cm and radius 1 cm. The fin is attached to a boiler whose wall temperature is 140°C and the free end is insulated. Assume convection coefficient h = 10 W/cm² °C. Conduction coefficient K = 70 W/cm² °C and T_e = 40 °C. The governing equation for the heat transfer through the fin is given by

$$\frac{d}{dx}\left[KA(x)\frac{dT}{dx}\right] + hp(x)(T - T_{\alpha}) = 0$$

Assume appropriate boundary conditions and calculate the temperature at every 1 cm from left end.

4. A bilateral rectangular element has coordinates as shown in figure and the nodal temperatures are $T_1 = 100 \text{ °C}$, $T_2 = 60 \text{ °C}$, $T_3 = 50 \text{ °C}$, $T_4 = 90 \text{ °C}$. Compute the temperature at the point whose coordinates are (2.5, 2.5). Also determine the 80 °C isotherm:



24519-1550-(P-4)(Q-8)(16) (2)

5. Write short notes on:

20

(i) Galerkin's method

(ii) Variation Method

(iii) Hermite Polynomials

(a) Explain the isoparameteric concept in finite element analysis.

6

(b) Explain the terms isoparameteric, subparameteric and superparameteric elements.

7. A beam of length 10 m, fixed at one end and supported by a roller at the other end carries a 20 kN concentrated load at the centre of the span. By taking the modulus of elasticity of material as 200 GPa and moment of inertia as 24×10^{-6} m⁴, determine: 20

i) Deflection under load

(ii) Shear force and bending moment at mid span

(iii) Reaction at supports

24519-1550-(P-4)(Q-8)(16)

8)(16) (3)

Roll No.

242

B. Tech. 5th Sem. (EE) Examination – December, 2016

Paper: EE-315-F

POWER SYSTEMS-I

Time: Three Hours]

[Maximum Marks: 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note: Question No. 1 is compulsory and attempt one from each Section. All questions carry equal marks.

- 1. (a) Write short note on single phase representation of balance three phase network.
- (b) Write short note on comparison of load flow methods.
- (c) Write short note on incremental fuel cost for a power plant.(d) Write short note on ACE(Area Control Error)

24228-8850-(P-3)(Q-9)(16)

P. T. C

SECTION - A

- 2. Explain steady state model of Synchronous Generator in detail.
- 3. Write short note on:

20

- (a) Complex power
- (b) Current breaker

SECTION - B

4. Draw neat & clean Flow Chart of Gauss-Siedel method & explain its algorithm in detail.

5

The load flow data for the sample power system are given below. The voltage magnitude at bus 2 is to be maintained at 1.04 p.u. The max & min reactive power limits of the generator at bus 2 are 0.35 & 0.0 p.u. respectively. Determine the set of load flow equation at the end of first iteration by using N-R method: 20

Bus Code Impedance Line Charging Admitance

2-3	1-3	1-2
0.06+j0.18	0.02+j0.06	0.08+j0.24
0.0	0.0	0.0

24228-8850-(P-3)(Q-9)(16) (2)

Schedule of generation of loads:

				12.
ώ	2	ü		Bus Code Assumed
1.0+j0.0	1.0+j0.0	1.06+j0.0 0	Vol.	Assumed
0	0.2	0	MM	Generation
0	0.0	.0	MW MVAR MW MVAR	eration
0.6	0.0	0	MM	
0.25	0.0	0	MVAR	Load
				1323

SECTION - C

- **6.** Write short note on optimal operation of generator on bus bar.
- Explain optimal scheduling of hydrothermal system in detail.

SECTION - D

- 8. Explain load frequency control of single area in detail.
 20
- 9. Explain Automatic voltage control in detail. 20

24228-8850-(P-3)(Q-9)(16)

(3)

Roll No.

Examination - December, 2016 B. Tech. 7th Semester (ECE) WIRELESS SENSOR NETWORK

Paper: ECE-411-F

they have been supplied the correct and complete question paper. Before answering the questions, candidates should ensure that Time: Three Hours] No complaint in this regard, will be entertained after examination. [Maximum Marks: 100

Note: Question No. 1 is compulsory. Attempt one question from each Unit.

- 1. (a) What is a wireless sensor network?
- (b) What are the hardware components of a wireless sensor network?
- (c) What are the requirements of a MAC protocols? 4 (d) What is wake up radio concept?
- What is clustering?

24447-1850-(P-3)(Q-9)(16)

P. T. O.

24447

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networks and explain any two with an example each.	What are the various applications of wireless sensor	of a Wireless Sensor network? 20	. What are the challenges and the required mechanisms

UNIT - II

4. Explain in detail the hardware components used in WSN architecture. 20

Explain in detail about the Gateway concepts.

20

III - TINU

Explain the design approaches and performance of S-MAC protocol. 20

structure. Discuss in detail the Transceiver characteristics and 20

00

Explain in detail about different topology control

mechanisms.

control. Explain about various clustering mechanisms in WSN Also explain in detail about the sensor tasking and 20

24447-1850-(P-3)(Q-9)(16)

24447-1850-(P-3)(Q-9)(16)

(2)

7. Write a detailed note on power substation automation and equipment condition monitoring system.20

SECTION - D

- 8. Write notes on:
- (a) Substation & feeder level automation.

10

- (b) Automatic mapping and facility management. 10
- Write notes on:
- (a) Power system & equipment maintenance.
- (b) Trouble call management.

10

10

Roll No.

24438

B. Tech. 7th Semester (EEE) Examination – December, 2016

PAper: EE-407-F

Time: Three Hours]

[Maximum Marks: 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note: Attempt five questions in all, selecting one question from each Section. Question No. 1 is compulsory.

- 1. (a) State and explain advantages and disadvantages of PLC in brief.
- (b) Explain SCADA communication in an electrical power system.
- (c) Write a short note on energy management system.

24438-1300-(P-4)(Q-9)(16)

24438-1300-(P-4)(Q-9)(16)

(4)

(d) Write a short note on automatic mapping and facility management.

SECTION - A

- N (a) Explain central processing unit in detail along with the three important parts in it. 10
- (b) Write a conditional logic statements below: PLC program to implement the 10
- Ξ A PLC output is to switch on if any of three input is switched on.
- (E) A PLC output is to switch on if any of three input is switched on but not two or more.
- (iii) output is switched on, but not the third A PLC output is to switch on if any two
- ω (a) List various functions of operations industry. SCADA in electrical 10

24438-1300-(P-4)(Q-9)(16) (2)

(b) Define and explain: HMI, SCADA server, Ladder

logic.

SECTION - B

- (a) How SCADA system is used in power generating station control room? Explain with an example. 10
- (d) Discuss the role of SCADA system in a power grid. 10
- 5 with a SCADA system in a power system facility. Explain the role of national control centre and regional diagrams to depict the communication between these two. Discuss the use of automatic generation control control centre in a modern power system. Use 20

SECTION - C

- 0 (a) Discuss the advantages of inter utility economy energy evaluation.
- (b) Write a detailed note on security analysis of power systems 10

24438-1300-(P-4)(Q-9)(16)

(3)

Time allowed: 3 hours

[Maximum marks: 100

question from each section. Question no. 1 is compulsory. Each question carries equal marks. Attempt any five questions in total, at least one (20 marks)

Explain the following -

Space Lattice

Induction Hardening

Objectives of heat treatment processes

Properties of Martensite

(e) Strain ageing

Bauschinger's effect

3

Types of fracture

(h)

(8)

Binary phase diagrams

Critical cooling rate

Tempering.

24049-P-3-Q-9-(16)

P.T.O.

20

Section-A

ņ (a) Discuss the classification of crystal imperfections in details

(b) Discuss atomic packing factor and number of atoms per unit cell in detail.

w (a) different materials? How are these formed? 10 What different types of structures are found in

3 What is crystallography? Explain crystal structure, space lattice and crystal directions.

Section-B

(a) Explain the Iron carbon equilibrium diagram in detail. What are its limitations?

Explain the TTT curve with its applications.

(a) Explain the difference between annealing and normalizing in detail.

U

3

9 detail. Explain any two surface hardening techniques in

Section-C

(a) What do you understand by plastic deformation? Explain mechanism of plastic deformation.

9

9 Explain the recovery, recrystallisation and grain growth in detail with application.

24049

7. (a) Explain types and mechanism of fractures in detail.

(3)

24049

3 Explain fatigue limit and the factors affecting fatigue.

Section-D

(a) Define creep and creep limit. How creep test is carried out and explain creep curve StudentSuvidha.com

00

9 Discuss dry and wet corrosion. Explain the methods of corrosion protection.

(a) Explain various types of polymers and formation of polymers.

.9

9 properties and formation techniques? What are ceramics, types of ceramics, their

papers

Notes and

Download all

III - TINU

- secondary distribution channels partners?

 How are they different from each other?
- 7. How has retail culture impacted the distribution strategies of the companies?

UNIT - IV

- S. What is meant by market logistics and supply chain management? How is logistics planning linked to the Channel Management?
- **9.** Write a detailed note on International Sales Management.

Roll No. ...

56090

MBA 2 Year 4th Semester (N.S.) (Re-appear) Examination— December, 2016

SALES & DISTRIBUTION MANAGEMENT

Paper: MBA-422

Time: 3 hours

Max. Marks: 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard will be entertained after the examination.

Note: The question paper will have two sections. Section A shall comprise 8 short questions carrying two marks each which are compulsory. Answer to each question should not exceed 50 words normally. Section B shall comprise 8 questions (2 questions from each unit).

The student will be required to attempt 56090-700-(P-4)(0-9)(16)

[Turn Over

four questions (one question from each unit). All questions will carry equal marks.

SECTION - A

an and a second

- Short answer type questions:
- (a) What do mean by Sales Management?
- (b) Define Channel Training Programme.
- (c) What are different methods of selecting distribution channels?
- (d) What is the importance of Sales Contest?
- (e) What do you mean by channel conflicts and resolutions?
- (f) What are the roles of channel members in distribution management?
- (g) Define the purpose of sales territories.
- (h) What are compensation plans? 56090-700-(P-4)(Q-9)(16) (2)

SECTION - B

I-LIND

- Personal Selling is a two way communication best suited to the consumer products having low brand loyalty? Explain.
- compensating and motivating the sales force? Explain.

UNIT - II

- persons for consumer product division of a company.
- 5. "Quotas can act as a motivator as well as demotivator". Comment.

 56090-700-(P-4)(Q-9)(16) (3) [Turn Over

- (a) Group technology layout
- (b) Planning the introduction of group technology and group technology advantages.

Roll No ..

24261

B. Tech. 5th Semester (ME)

Examination - December, 2016 MANUFACTURING TECHNOLOGY - II

Paper: ME-309-F

Time: Three Hours]

[Maximum Marks: 100

complaint in this regard, will be entertained after examination. have been supplied the correct and complete question paper. No Before answering the question, candidates should ensure that they

Note: Attempt any five Questions in total, at least one question from each section, question no. 1 is compulsory. Each question carries equal marks 20 marks.

1. Explain the following :

20

- (a) Milling Fixtures
- (b) Principle of Electron beam machining
- (c) Difference between Jigs and Fixtures
- (d) CNC Machines

24261-6450-(P-4)(Q-9) (16)

- (e) Orthogonal cutting
- (f) Milling Tools
- 69 Mechanism of metal cutting
- E Clamping devices
- Merchant cutting force circle

 Ξ

9

Unconventional machining processes

SECTION - A

(a) What is the effect of cutting speed, depth of cut and feed rate on the forces on cutting tool?

2

- 3 Explain the mechanism of chip formation. Also explain the continuous chips with built up
- ω (a) What is tool life? Explain the different types of
- 9 Explain the purpose and types of cutting fluids and effect of cutting fluids on tool life.

SECTION - B

4 (a) With the help of neat sketch, explain the material application in Electrochemical grinding. removal, surface finish, advantages and

- (b) With the help of neat diagram, explain the working of LBM. What are the critical parameters and limitations of LBM?
- (a) How to determine that the jig and fixtures for a are the advantages of jigs and fixtures? particular application will be economical? What

Ģ

9 How work pieces are located? What is meant by 3-2-1 principle of location? What is method to locate a rough surface? the best

SECTION - C

- 6 (a) Explain the two axes part programming for milling operation with example
- 9 Explain the classification on NC system. Also explain the CNC and DNC systems
- 7. (a) 9 Discuss the advantages of CNC system Explain in detail how programming is done for NC machine tool? 10

SECTION - D

- 00 Explain the following:
- Definition, concept and working of group
- (ii) Stages for adopting group technology

technology.

24261-6450-(P-4)(Q-9) (16) (3)

24261-6450-(P-4)(Q-9) (16)

(2)

Roll No.

24424

B. Tech. 7th Semester (Electrical Engg.) Examination – December, 2016

COMPUTER APPLICATIONS TO POWER SYSTEM
ANALYSIS

Paper: EE-409-F

Time: Three Hours]

l Maximum Marks: 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note: Attempt five questions out of nine questions.

Question No. 1 is compulsory. Students have to attempt one question from each of four Sections.

- 1. (a) What is the importance of power flow studies?
- (b) What are the conditions for choosing slack bus?
- Explain sparsity.
- (d) Explain per fault current condition.
- Compare GS & NR method.

24424-1850-(P-3)(Q-9)(16)

. T. O

Explain growth of power system.

Ņ

3. Explain Ferranti effect in transmission line & calculate the performance of short transmission line.

SECTION - B

- 4. Explain formation transformation. of X bus using singular
- 5 Explain NR method for load flow study & write its algorithm.

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SECTION - C

- Explain symmetrical components in power system. What is approximate load flow studies?
- 7. Explain various digital types of faults in power system.

SECTION - D

8. Explain various states in SCADA system.

24424-1850-(P-3)(Q-9)(16) (2)

9. Describe various MATLAB block set in power system.

Roll No.

24440

Examination – December, 2016 B. Tech. 7th Semester (ECE) WIRELESS COMMUNICATION

Time: Three Hours]

[Maximum Marks: 100

Paper: ECE-405-F

they have been supplied the correct and complete question paper. Before answering the questions, candidates should ensure that No complaint in this regard, will be entertained after examination.

Note: Attempt five questions. Question No. compulsory. Attempt one questions from Sections.

1. (a) How the channels are assigned? Differentiate 2G and 3G networks OT OT

24440-3450-(P-3)(Q-9)(16)

(d) Define paging systems.

0

Explain the Erlang formula.

P. T. O.

On

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SECTION - A

f		ហ	8	4			ω			2
	(E)	5. (a)	9	a		(b)	(a)	(b)		(a)
	Explain spread spectrum multiple access.		(b) Discuss the different type of hand off strategies.10	4. (a) Explain the concept of frequency reuse.		(b) Explain the process of making a mobile call.	3. (a) Differentiate between WLL and WLAN.	(b) Explain the cordless telephone systems	communication.	2. (a) Explain the
S	spread	lock of unction	he diffe	he conc	SE	he proc	iate bet	he cord	cation.	the
SECTION - C	spectru	a basic	erent ty	ept of f	SECTION - B	ess of 1	ween V	less tel		evolution
N-C	um mu	cellul lules.	pe of l	requer	- B	nakin	VLL ar	ephon		
	ltiple	ar s)	nand	ıcy r		зап	1d X	e sys		of
	access.	With a block of a basic cellular system, explain its various functional modules.	off strate	euse.		obile call.	LAN.	tems.		mobile
	10	lain its	gies.10	10.) Samuel Control	10	10	10	10	radio

(b) Discuss space division multiple access.

10

wireless networks.

sed in	9. (a) Discuss different types of traffic routing used in	. 10	ng a mobile call.
10	(b) Draw and explain block diagram of ISDN.	10	and WLAN.
10	8. (a) Discuss CDMA cellular Radio Networks.	10	ne systems.
	SECTION - D	10	*
10	(b) Discuss the different wireless data services.	radio	of mobile radio
10	7. (a) Write a short note on packet ratio.		

24440-3450-(P-3)(Q-9)(16)

(2)

6

(a) Discuss the measurement capacity of a cellular

10

(b) Explain different features of TDMA over FDMA. 10

SECTION - D

- 00 (a) Give a logical flow chart for single server and parallel server simulation model.
- 9 Three points are chosen at random on the semi-circle. method the probability that they lie on the same circumference of a circle. Find by Monte Carlo
- (a) With suitable example discuss laplace criterion (Bayes criterion).

9.

- 9 With suitable example describe realism (Hurwicz criterion) criterion for
- 0 A newspaper boy has the following probabilities of selling a magazine:

					No.	-
1/1	13	12	11	10	No. of Copies Sold Probability	
0.30	0.25	0.20	0.15	0.10	Probability	ASSESSMENT OF THE PARTY OF THE

copies should he order? Cost of a copy is 30 paise and sale price is 50 paise. He cannot return unsold copies. How many

Roll No.

24478

B. Tech. 7th Semester (ME)

Examination – December, 2016 **OPERATION RESEARCH**

Paper: ME-405-F

Time: Three Hours!

[Maximum Marks: 100

complaint in this regard, will be entertained after examination. have been supplied the correct and complete question paper. No Before answering the question, candidates should ensure that they

Note: Question No. 1 is compulsory. Attempt five questions in total by selecting at least one question from each Section. All question carry equal marks.

Discuss about following:

4 × 5 = 20

- Decision making under certainity
- 9 Float in network
- Stepperg stone method
- Post optimality

SECTION - A

(a) "Operation research is a tool for decision support system." Justity.

2

(b)

What are the ways of improving productivity? improving the productivity. Discuss the role of operation research in

24478-6750-(P-4)(Q-9)(16)

24478-6750-(P-4)(Q-9)(16)

(4)

- ယ (a) Describe the assumptions made Programming. in Linear
- (b) Solve the LP problem graphically: Maximize $Z = 100X_1 + 50X_2$

15

9

Subject to:

 $4X_1 + 6X_2 \le 24$ $X_1 \leq 4$

 $X_2 \le 4/3$

 $X_1, X_2 \ge 0$

SECTION -B

Describe zero-one programming model assignment problem and discuss types of assignment problem with suitable examples.

- 3 Discuss practical application of transportation model.
- (a) Prove that dual of a dual is primal

Ċ

(b)

Solve the following LP problem using the result of its dual problem.

Minimize $Z = 24X_1 + 30X_2$

Subject to:

 $2X_1 + 3X_2 \ge 10$

 $4X_1 + 9X_2 \ge 15$

 $6X_1 + 6X_2 \ge 20$

 $X_1, X_2, \geq 0$

24478-6750-(P-4)(Q-9)(16) (2)

SECTION - C

- Discuss the application areas of queuing theory. 5
- 0 Discuss in detail a deterministic queuing model. 5
- hour. The average time to pass through the gate is installation of the second gate is justified. gate is more than 5 vehicles. Check whether the gate to 30 seconds if the idle time of the toll gate is reduce the average time to pass through the toll authorities are willing to install one more gate to that the vehicles wait for long duration. The follow Poisson distribution. There is complaint less than 10% and the average queue length at the 36 seconds. The arrival rate and service rate Vehicles pass through a toll gate at a rate of 90 per
- 7. (a) Distinguish between resource leveling resource allocation. and 5

(b) Consider the data of a project

_	_				A			Φį.		į
4-5	3-4	3-2	2-5	1-4	13	1-2			Activity	
9	5	6	12	7	5	13	(weeks)	lime	Normal	The state of
1500	1000	900	800	600	400	700	(Rs.)	Cost	Normal	and a project as stight III (4DIE :
6	3	4	11	4	4	9	(weeks)	Time	Crash	TI ITAAOITE CE
1800	1180	1130	865	810	460	900	(Rs.)	Cost	Crash	r rabie:

Optimal crashed project completion time. If the indirect cost per week is Rs. 160, find the 15

24478-6750-(P-4)(Q-9)(16)

(3)

(b) What do you mean by 'Economics of nuclear power plants'? 10

SECTION - D

- (a) Discuss with neat diagram the working "Thermionic power generation system". of a
- Discuss the working of geothermal power plants.

b

(a) Describe, with neat sketch, the working and features of a Wind power plant.

9

8 Discuss diversity factor. Describe how power is generated by MHD.

Roll No ..

24479

B. Tech. 7th Semester (ME)

Examination - December, 2016 POWER PLANT ENGINEERING

Paper: ME-407-F

Time : Three Hours |

have been supplied the correct and complete question paper. No Before answering the question, candidates should ensure that they [Maximum Marks: 100

complaint in this regard, will be entertained after examination.

Note: Attempt five questions in total, selecting one question from each Section. Question No. 1 is compulsory. Each question carries equal marks.

1. Discuss the following:

 $5 \times 4 = 20$

- (a) Methods of measurement for rainfall and run-off
- (b) Re-powering system
- 0 Breeder reactor
- (d) MHD power generator

24479-6450-(P-4)(Q-9)(16)

24479-6450-(P-4)(Q-9)(16)

(4)

SECTION - A

- 2. (a) Discuss the various factors for selection of power plants.
- (b) Calculate the power that can be developed from a hydro-electric power station having the following data. Catchment area = 100 sq. km.; average value of annual rainfall = 120 cm; Run-off = 80%; available head = 300 m; overall efficiency of the power station = 75%.
- (a) How does a modified Rankine cycle differ from a Rankine cycle? Write also the expression of modified Rankine efficiency.

ω

(b) Why is governing of hydraulic turbines necessary? Explain the governing mechanism of a Kaplan turbine.

SECTION - B

(a) Draw a line diagram of in plant coal handling system and explain the equipment used at different stages.

4

- (b) How would you make an economic analysis of the combined operation of the hydro and steam power plants?
- 5. (a) Explain the different methods used for supplying pulverized fuel to the combustion chambers of the boilers with their advantages and disadvantages.

(b) An annual load duration curve of a system of loads is a straight line with maximum of 12 MW at the beginning and 2 MW at the end of the year. Annual costs of base and peak load stations are given below:

C1 = 8000 + Rs. 75/kW + 3 paise/kWh (base load)C2 = 6000 + Rs. 55/kW + 4 paise/kWh (peak)

· load)

Determine the following:

*

- i) Duration of time when peak load station will work in order to obtain the minimum annual cost.
- (ii) The lowest overall cost per kW (in paise).

SECTION - C

- 6. Draw neat diagrams of PWR and BWR type reactor and explain their working principle and give their advantages. Also discuss a moderator in nuclear reactor.
- (a) Determine the load factor at which the cost of supplying a unit of electricity is same in Diesel station as in a steam station if the respective annual fixed and running charges are given below:

Diesel: Rs. (40/kW + 0.06/kWh).

Steam: Rs. (160/kW + 0.015/kWh).

24479-6450-(P-4)(Q-9)(16)

(3)

24479-6450-(P-4)(Q-9)(16)

(2)

(b) Explain in detail the need and functions of ECGC in international trade operations.

7. Describe the schemes of EXIM BANK which help exporters.

UNIT - IV

- 8. What are special economic zones? Highlight their role in improving exports.
- 9. What is an EOU? How does it aid in exports and discuss the procedure for setting up such EOU's.

Roll No.

56087

MBA 2 Year 4th Semester (NS) (Re-appear) Examination– December, 2016

INTERNATIONAL LOGISTICS

Paper: MBA-419

Time: 3 hours

Max. Marks: 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard will be entertained after the examination.

Note: Section A is compulsory. Attempt any four questions from Section B selecting at least one questions from each unit. All questions carry equal marks.

SECTION - A

- (a) "India has adequate institutional infrastructure available for exports".

 Justify.
- (b) Explain the benefits of undertaking export orders under Letter of Credit.

56087-600-(P-4)(Q-9)(16) (1)

56087-600-(P-4)(Q-9)(16)

(4)

[Turn Over

- (c) Differentiate between packaging and packing.
- (d) Discuss the need and objectives of logistics management.
- (e) Explain the factors influencing transportation.
- f) What are the services offered by third party logistics provider?
- (g) Explain the types of cargos with its purpose.
- (h) What is the difference between SEZ and EOU?

SECTION - B

I- TIND

- forces impacting the development of world trade? Show by examples how they are changing the nature of international business.
- (b) How can an export organization be created? Discuss the registration regulations and licensing requirements.

- 3. (a) Explain the nature, significance, objectives and components of International logistics management.
- (b) Based on what factors will you select a product for exports?

II - TIND

- Enlist the institutions in India which are financing export. Discuss in detail the role of these institutions for financing exports.
- 5. (a) Discuss the role of forwarding and clearing agents.
- (b) Discuss the role and benefits of preshipment finance.
- (c) What is post-shipment finance? Explain its various methods and discuss the procedure of export under deferred payments.

UNIT - III

 (a) Explain the risks covered and not covered under credit risk insurance.

(3)

(b) Why digital video/audio is preferred over analog video/audio? Illustrate.

Roll No.

MCA 3rd Semester (with Old Notes)

Examination – December, 2016 **COMPUTER GRAPHICS & MULTIMEDIA**

Paper: MCA-301

Time: Three Hours]

[Maximum Marks: 80

complaint in this regard, will be entertained after examination. have been supplied the correct and complete question paper. No Before answering the question, candidates should ensure that they

Download all Notes and papers from StudentSuvidha.com

Note: Attempt five questions in all by selecting at least equal marks. one question from each Unit. All questions carry

I- TINU

- What do you understand by a Graphics Software? What are salient features of a good Graphics Software? Explain.
- 9 What is classification(s) and outline the differences among these along with their application areas. Computer Graphics ? State

-(P-4)(Q-8)(16)

(4)

(i) About the origin

N

- (ii) About P (-1, -1)
- (b) What do you understand by Composite a suitable example of your choice. Transformation? Illustrate the concept by taking
- <u>O</u> What is meant by distortion? How can distortion be removed in viewing transformation?
- (a) Given points P₁ (1, 2, 0), P₂ (3, 6, 20), and P₃ (2; 4, 6) and a viewpoint C(0, 0, -10), determine which points obscure the others when viewed from C. 6
- (b) What is Sutherland-Cohen Clipping Algorithm? Illustrate the same through an example.

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0 Differentiate Normalized-, World-, and Physical Device-Coordinates.

UNIT - IV

- 7. (a) What do you mean by multimedia? What are of each component. important multimedia components? Discuss role
- (b) What is animation? What are different types of animation? Discuss their pros and cons.

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-(P-4)(Q-8)(16)

(2)

(b) What are ethical issues in computer security?

Illustrate.

Roll No.

6721

MCA 5th Semester (with old notes) Examination – December, 2016

Paper: MCA-505

COMPUTER SECURITY

Time: Three Hours]

[Maximum Marks : 80

Before answering the questions, candidates should ensure that they

have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note: Attempt *five* questions in all by selecting questions selecting *one* question from each Unit. All questions carry equal marks.

I- TINU

1. What is computer security? What are its goals and objectives? How vulnerabilities, threats, attacks and control measures are inter-related? Illustrate through a suitable example.

67215-600 (P-4)(Q-9)(16)

67215- -(P-4)(Q-9)(16)

(4)

- 2. (a) How do you compare DES and AES ? Illustrate suitability of each standard.
- (b) What characteristics would make an encryption absolutely unbreakable? What characteristics would make an encryption impractical to break? Explain.

UNIT -

- 3. (a) What are security models? What is the purpose of these models? Explain two popular models highlighting properties that characterize these models.
- (b) What are different security methods for an operating system? Illustrate.
- (a) What is program security? What are important security concerns specific to programs? Illustrate relevance of each.
- (b) What is trusted operating system? What characterizes a good trusted operating system? Explain.

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-(P-4)(Q-9)(16)

(2)

CNT - II

- 5. (a) What are various levels of protection that users might apply to code or data? Illustrate.
- (b) What are IDSs? What are its types? What are their goals? Discuss.
- 6. (a) What is security in networks? What are threats in networks? How can these be controlled?

 Illustrate.
- (b) What are multilevel database? What is the purpose of encryption in a multilevel secure DBMS? Discuss.

UNIT - IV

- 7. (a) What is protection for computer objects?Compare Copyright, Patent and Trade Secret Protections.
- (b) What do you understand by a security plan?What are the factors that should be considered when developing a security plan? Discuss.

67215- -(P-4)(Q-9)(16)

P. T. O.

(3)

Time allowed: 3 hours]

[Maximum marks: 100

Note: Attempt five questions in all. Question no. 1 is compulsory. Rest of the four questions should be answered from each section. All questions carry

Explain the following in short from:

equal marks.

- Define Economics
- (iii) Ξ What is Economic Problem? What is Marginal Utility?

Features of Perfect Competition.

(iv)

- 3 Factors of Production.
- (X) M
- (vii) Money Cost.
- (viii) External Economics
- Income Elasticity of Demand
- Opportunity Cost.

2×10=20

Section-A

2 Critically examine Robbin's Definition of Economics

(20)

P.T.O.

w Marginal Utility. What is Utility? Discuss the law of Diminishing

Section-B

- 4 slope downwards? Explain the law of Demand. Why does demand curve (20)
- in Write short notes on:
- (a) Internal economics and diseconomies of scale.
- 3 Law of variable proportions.

(10)

(10)

Section-C

features? Define Monopolistic Competition. What are its main (20)

6

Write short notes on:

7.

- Average Cost and Marginal Cost
- (ii) Fixed Cost and Variable Cost.

(10)

(0i)

Section-D

- determination. Explain the role of demand and supply in price (20)
- Write short notes on -

9

00

(a) WTO

- (10)
- (b) Privatization Merits and Demerits.

(10)

24021

Time allowed: 3 hours]

[Maximum marks : 100

Note: Attempt any five questions.

- (a) Find the total pressure and position of center of 2.5 m from water surface. the free surface of the water. The base of the plate is parallel to the water surface and at a depth of the plan of the plate makes an angle of 60° with 3m which is immersed in water in such a way that pressure on a triangular plate of base 2m and height
- (b) Write short notes on determination of fluids. compressibility. Newtonian and Non Newtonian
- 2 be used very near to boundary? and streak line. What is meaning of flow net? Can flow Define and distinguish between stream line, path line
- w applications. giving its assumption made. List out its engineering Derive the Bernoulli's Equation along a stream line

- Write short notes on important dimensionless numbers and their significance geometric, kinematic and dynamic similarity.
- 5. A laminar flow is taking place in a pipe of diameter of 200 mm. The maximum velocity is 1.5 m/s. Find the mean velocity and radius at which this occur. Also calculate the velocity at 4 cm from the wall of pipe.

6. An oil of specific gravity 0.8 is flowing through a venturimeter having inlet diameter 20 cm and throat diameter 10 cm. The oil-mercury differential manometer shows a reading of 25 cm. calculate the discharge of oil through the horizontal venturimeter.

Take C_d = 0.98.

. For the velocity profile for laminar boundary layer

$$\frac{u}{U} = \frac{3}{2} \left(\frac{y}{\delta} \right) - \frac{1}{2} \left(\frac{y}{\delta} \right)^{2}.$$

Determine the boundary layer thickness, shear stress, drag force and coefficient of drag in terms of Reynolds number.

Write short notes on

00

- Prandtl mixing length hypothesis
- (b) Hydraulically smooth and rough pipes.

24066

20