Question of EIM

2 Marks.

ch-11. What is Business ?. 2. State two features of Business. Analytical industry. 3. Define 4. Define synthetic industry. 5. Define extractive industry. industry. 6. Define Genetic 7. What is Trade. 8. What is Aid to trade. Define Retail trade and Wholesale trade. 9. 10. Define local trade and regional trade. Define National trade and international trade. 11. 12. Define import trade and export trade. What is unlimited liability? 3. 14. Define partnership Deed. What doyou mean by Active partner., sleeping partner, Nominal partner, minor partner, 15. and partner by estoppel. Who is Kanta. IG . Define Management. 17. Difference between Administration and management. 18. Define scientific Management. 19, ch-2 20. Define Entrepreneurship. 21. Who is an Entrepreneur. 22. Full form and Role of DIG, OSFC, OSIC, IDCO, SIDBI , IPICOL . 23. Role OF commercial Bank. 24. What doyou mean by MSME. ch-3 25. Define journal. ledgen, A 26. Define BEP, and angle OF incidence. 27. Define

Ch-4
28. Define Finance Management.
29. What is Eixed capital.
30. What is Working capital.
31. Difference between Fixed capital and working capital.
Ch-5
32. Define inventory.
33. What is BIN-card.
34. Define store ledger.
35. Define Goods received Notes (GRNS) Ch-6
ch-6 36. Define production planning
of Define production control.
38. state production, planning and control.
ch-7
39. What is market? 40. Define Hire purchase.
42. Define E-commette, Autovending, Auction sales.
43. Explain convenience goods.
44. Define shopping goods.
45. Define speciality goods.
46. Define Branding. 45. Define Branding.
47. Define packaging
48. What is Labelling.
49. Define product-Mix.
50. Explain skimming price strategy.
51. Explain penetration strategy
52. What is advertising
53. Define Human Resource Management Culorad
of Uneolicited applications
55. Defice Modernois training
56. Define vestibule training
56. What is performance l'appraisal.
57. What is Recruitment. 58. Define training.
58. DEFINE Mail/Mg.

59. What is industrial sickness.
60. Symptoms OF Sickness.
61. What do you mean by over-capitalisation and under-capitalisation.
62. 10 How liberalis How liberalisation and globalisation of economy causes sickness.
63. Remedial Measures of Brickness. 64. Role and full form OF BIFR. ch-10.
GAN. Contract to the second se
65. Define a factory.
5 Marks
1. Importance of management.
2. Preinciples of scientific management.
3. Features of sole propretor with advantages and disadvantages
4. Difference between Administration and management.
5. Joint stock company
5. Joint stock company 6. co-operative society. 7. Joint Hindu Family Business.
8. Basic characteristics OF parthenship with advantages and disadvantages.
9. ppr and DPR.
10. Role of an entrepreneur in socio Economic development of a society.
11. Difference between Entrepreneur and Enterprise.
12. short notes on: - Double entry system of
book reeping, Types of accounts, Journal,
reagen, cash books, Trial Balance.
13. () Break - even analysis and problems related to BEP
14. Prepare a cost sheet with imaginary figure and

15. Importance of Financial Management.
16. Difference between fixed capétal and working capital.
capital.
17. Working capital cycle.
18. Short notes on: - Bincard, Storre ledger and Goods received Note.
Goods Received interest
19. What is the importance of the internet
20. Importance of production, planning and control.
21. sales Management and its importance.
21. Marketing Management and its importance.
22. Shoret notes on - Branding, packeging, labelling, product - Mix.
23. Discuss the method of pricing, it
24. sales promotion techniques.
25. Method of Recruitment.
26. sources OF Recruitment: in a poraisal,
29. Need of performance appraisal.
28. symptoms of Industrial Sickness.
29. causes OF sickness.
30. Remedial Measures of sickness,
31. Duties and process of factory inspector.
32. Factories Act related to Hours of work.

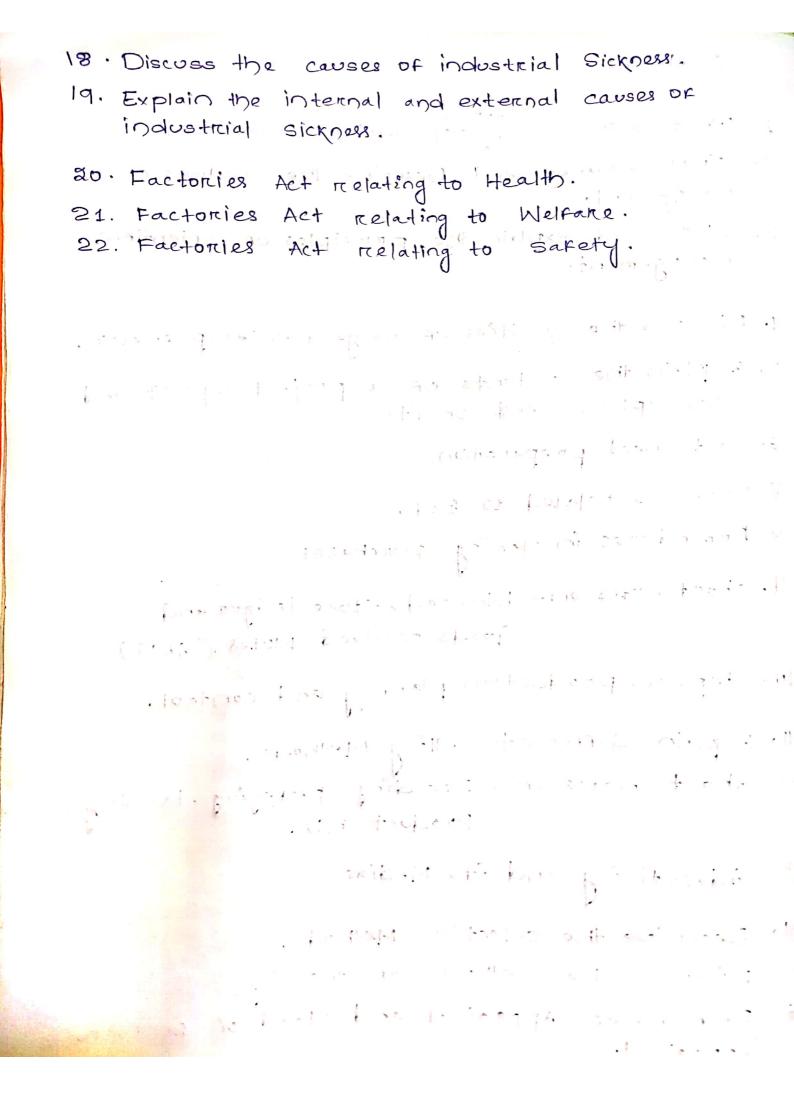
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10 Marks.

Explain

- 1. What is Business, component of Business.
- 2. What is management. Describe the functions of management.
- 3. State and Explain the principles of scientific management.
- 4. Discuss the qualities or an good enterepreneur.
- 5. Explain the contents of a project report and also explain need of it.
- 6. cost-sheet preparation.
- J. Problems related to BEP,
- 8. Proceduires in making purchases.
- 9. short notes on Bincard, Store ledger and Goods received Notes (GRN)
- 10. steps in production, planning and control.
- 11 Explain different selling Methods. 12. Short notes on - Branding, packeging, labelling, Product - Mix.
- 13. Advertising and its Medias.
- 14, Describe the selection Methods.
- 15. Discuss the methods of training,
- 16. Performance Appraisal and Need of performance Appraisal.
- 17. sources of recruitment.



4) What is fusing worked ? 2) Define fusing factor. 4) Why discrimination is an essential feature of discrimination is an essential feature of discritichation? 10) At what voltage anteloon type suitchgen conjonent is installed ? 227 2 2 8 7 6 ing what is fuse 9 write one of its major advantages Subjed :- SGPD (Switch georg Prodedine Device) Define prospective currend. Define TSM. While Causes of over velfage. write the names of switchgean equipmends. Defre Restriking Valtege > state hourful lefted of lightning.) what is shout-time noting of cinerit-breaken ? 2 Marks Questions? -Name the quenching redium used in cincuit-breaker. What is Ancing ground ? What is Ancing ground ? What a.c cincuit is more easily interrughed that dic cincuit? Define pick-up Current. Define PSM. Define short cincuit KVA. write difference between free and circuit breaker. 1, hot are the naturals used for fue element 9 what is a relation ? writedisadvanlages of HRC type of fuses.

23) write two advantages of static relay over Electronechonical type relay. 24) Define protective relay. 21-) What is pick-up correct of relay? 26) what is cincuit - breaker? 24) Define breaking capacity of circuit-breaker 26) Define RRRY. 5 Marks Questions ? Discuss essential features of switch gear. 2) Write short notes on difference between a fuse and Circuit breaker. 3) write short notes on Arc phenomenon. A relay & connected to a 400/5 current -Iransfermer and set at 150% with a primary fault current of 2400 A. Calculate plug-setting multipler. 5) Explain Corrent differential relay. 6) write harsful etfet of lightening. Fy write short notes on the followings: (i) Red-grap lightening arrester. (ii) (ress blast air circuit breaker (m) Rearters. (iv) Advantages of static relay (V) Buchhelz relay.

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5 Marks Questiony! Explain plain break oil circuit breaker. 8) Define and emplain P.S.M and T.S.M. 9) 10) Explain Restriking Voltage and Recovery Veltage. Explain Horn-grap Lightening arrester lette diagram 125 Explain Ain-Blast concuit breaker. Define prospective current and cut-off currend. 13) write short notes on Arc phenomenon. 14) 15) Exploin current differential relay. Enplain Surge Absorber. 16) 17) Explan different types of reactors. 18) A generating station has three section bus-bars connected whith a the bar through 6% reactors nated at 5000 KVA. Each generator is of 5000 kVA with 12% reactance and & connected to one section of bus-borr. Find the total steady input to a dead short - circuit between the lines on one of the sections of bus-bar. (i) with nearters and (ii) without reacters 19) write short notes on;-(i) SF cincuit-breaker. (ii) Differential protection of alternaters. (in) Low and Cincuit breaker. (i_{n}) JDMT Relay (V) Vaccum Cincuit Breeker. (v_i) Methods of Anc Extinction.

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20) Draw the wave diagram of correct and enplain briefly cut-it current, pre-arcing time, arcingtime, Ielal operating time. 21) Explain high resistance method of Arc entirchion. 22> Explain Merz-price profension of Feeders. 23) A cincuit breaker is noted as 2000A, 1500 MVA, 33 kV, 3 second, 30 oil concuit breaker. Find (i) Rated normal current (ii) Breing capacity (iii) Rated symmetrica breaking current. (iv) Rated mang current. (v) short time (nating. 24) Explain rating of C.B. 2r) write neat sketch englain hav lightning discharge or with discharge occurs. 26) with neat sketch englain about cut-off corrent Characteristics relating to HRC type of fuse. 27) Explain bus-bar reactors 28) Explain essential qualities of good protective System. 29) Explain Merz-price protection for transformery. 10 Marks Questions!-Explain value type lightning arrester. Enploin low oil circuit breaker. 3) Explain induction-lype directional over-current relay with circuit diagram.

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4) A generating station has three bus-bars connected with a tre-bar through 6% reader noted at 5000 KVA. Each generator i of 5000 kvA with 12% neadlance and is connected to one section of bus-boors. Find the total steady input to a dead shert circuit between the lines on one of the Sections of bus-bar (i) with reactors and (i) without neatory.

5) what are the types of nearbors used in substation as per hocations ? Explain neletine advantages. 6) Explain earth-fault protection for transformer. Explain HR.C Catridge Juse. B) Explain induction type non-directional over-curent relay with circuit diagram. 9) Explan Hærn-grap highbning arrester milte its advantages and limitation. Explain value - type lightning arrester with 10) Figure. with next sketch englan about minimum onl $|1\rangle$ circuit breakers. Explain Buchhelz relay with next diagram. 12) Explain SF6 circuit-breaker. 13) Explain HRC fuse with tripping device. 14) Explan Basic operation on Induction relay. 15)

SATURDAY . DECEMBER . 2018 (363-002) WK 52 * ARK Explain group and individual drive Explain direct erric furnale and uses of anc Europaie. Explain principles of resistance welding. 1 12 9 Eacplain series parcallel control of traction 12 Motors. The illumination at point on the working Plane directly below the lamp is to be leolumens/m2. The lamp gives 256 L.P uniformly below the horizontal plane. Determine the height at which the lampis Suspended. Also find illumination at point on the working table. 1-2 meters away from the vertical areas of lamp. A ware our shaft loc. N. diapreteres 25cm long is to be coated with 2 mm thick layer of nickel. Determine the quantity of 30 SUNDAY electricity required and time taken if current density of 160 amp/sq meters is adopted. Assume cruturent officiency of doil Density of nickel = 8.9 gm/cG, E.C.E of nickel = 3043 mgm/coulomb.

2018 • DECEMBER • MONDAY 11 12 13 11 1: 18 19 20 18 23 24 25 26 27 71 22 29 29 30 31 WK 01 (365-000) Explain Farcaday's Laws of Electrolysis Explain Working Principle of Direct Aru what are the different types of ARC welding ? Explain . (9) what is Resistance werding ? Excercin different 1 (10) types of resistance weiding. about gas discharge jamp? Give basic idea Explain about storing and running characteri-Explain speed control of motors by series-Parallel control method 1- 18.253gm. of nickel are diposited by loo amp. Flowing for 10 minutes, how much copperensated be diposited by roamp for 6 min. ? Atomatic weight or nicker - 53:6 and that of coppere 63.18. Nalency of both is 2. Explain vertical cone type induction formare:

NAME, ADDRESS & E-MAIL PHONES 19 MOB. / FAX (6) write down the applications of dielectric hearing. Explain inverse square law and cosine law or illumination. 18) Estimate the number and wattage of 10 mps which would be required to incominate a Workshop space BOX13 meters by means of lamps mounted 5 meters above the corching Plane. The average illumination required is about 100 mgc, coefficient of utilisation is o.y, luminows efficiency 16 lunens perc Wate Assume a space-beight reatio of unit and a condie power depreciation of 201. Explain the meterdyne system of control of D.C motors . state the advantages of electrical heating Enerlain principle of Arcc welding. Explain prietly the potare crunies. state the application of DC. Motors and single phase induction motor. Explain starting and running characteristics of DC services motor.

E-MAIL PHONES D/E/F fouriain services parallel control of traction MOB. / FAX Hing. Explain brueny the Netadyne control of motor w MARKS E Eachlain briefly the factors affecting the amount of Electrico-deposition. Enclain briefly the principle of mesistance Explain the inverse square law Eacplain the prainciple of sodium vapour Lamp. Enclain the choice of electric device drives. Explain DC and AC tranction motors! (1) Explain briefly breaking with 1- Phase services

NAME, ADDRESS & E-MAIL PHONES MOB. / FAX Durite basic principle of electriceleposition. Durite advantages of electrical heating. to Explain principle of art weiding Eachlain with near sketch the working of sodium vapour lamp. 3 Eachiain group and individual drive Explain Regenerative braking with three Phase induction motors what are the factors affecting and governing electro-deposition what are the advantages of medistance. heating) five principle of microwave heating with application. Eacplain warring of direct corre type induction furnail. Explain about Laws of illumination

NAME, ADDRESS & E-MAIL K/L/M/N PHONES MOB. / FAX what are the method of choice of electric Explain about Regenericative Broking AD) state farcadays Laws of Etertrolysis. state types of and welding. write shore notes system of Treack electri-23 fication. MARKS What is farcadays Luw of Electrolysis. State application of dietectric would ny. what is traminous expiciency. (3 what is depreciation factor. 4 what is Brightness. C what is traction. 6

O/P/Q/R NAME, ADDRESS & E-MAIL MOB. / FAX PHONES D when is Magnetic Breaking. . . @ what is polarization : (9) give the name or one high frequency hearing method. (0) what is are blow. (1) what is solid angle. Define MSCP. Show the connection diagroom of a fluorescent tube. what is crutterent efficiency CERED TO LER WITE TO what is skin effect. Cressing is net will far what are the different application of Electronyou. KONTROTTER CULTURE Define MHCP. TOP OF INTERIOR DO WILL BO 2. what is polar curves. state two application of a services motor

S/T/U/V NAME, ADDRESS & E-MAIL PHONES MOB. / FAX befine luminous intensity. (20) Define Intensity of illumination. (al) perine maintenance eractors of illumination. state cosine new or illumination. Shory notes ? Mugnetic Braking (2) Neon single Lamps 3 Application of D.C. Motore Electroplating Application of high frequency 5 induction hearing 6 correless induction furenace and its ordvon-tages_ (7) Application of D.C motore in treaction

QUESTION BANK OF

ELECTRICAL INSTALLATION AND ESTIMATING (6 TH SEM ELECTRICAL)

2- MARKS QUESTION

- 1) Why fuse is not provided in neutral of A.C supply?
- 2) What is the minimum ground clearance required for 11kv and 132kv transmissionline.?
- 3) What is the permissible voltage drop in an internal domestic house wiring?
- 4) How many earth connections are required formotor frame as per IE rule?
- 5) What is the maximum load that is permitted in a power circuit and lighting circuit?
- 6) What do you mean by guarding of overhead line?
- 7) What is the full form of AAC ,ACSR,TRS,VIR.
- 8) What is the full-form of PILC.
- 9) State what is egg insulator and where it is used.?
- 10) State the minimum ground clearance required for 33kv line while passing along the street. (refers to data table)
- 11) Write down the full form of TPMO and where and why it is used?
- 12) What are the systems of wiring connection? Write the advantages of loop-in system?
- 13) State the criteria required to fulfill for selecting a conductor for an installation.?
- 14) The size of batten required to carry 8nos. of single core pvc wires?
- 15) State the difference between main distribution board and branch distribution board.?
- 16) What is Transposition.?
- 17)State the size of batten required to carry 10 nos. of single core PVCwires.
- 18) Why must the connection of earth in case of earthing have a lowresistance.?
- 20) Write the general specification ofcable?
- 21) Where and why strain type insulator is used?
- 22) What is V guard where it is used?
- 23) What is the maximum voltage regulation allowed for H.V and EHV lines as per rules?
- 24) Importance of continuous earth wire in a domestic installation.
- 25) What is the minimum ground clearance required for 132 KV Transmission line?
- 26) What is the depth of a pole to bury under the ground?
- 27) What is jumper?
- 28) Why concealed type of conduit wiring is not suitable in workshop?

- 29) What is a load centre?
- 30) What is barbed wire?
- 31) What is bird guard?

5-MARK QUESTIONS

- 1) Why Earthing is required in a domestic house wiring? Mention a list of materials required for a plate Earthing.
- 2) Draw and explain how a staircase light may be switched ON and OFF from ground floor and first floor?
 - 3) Draw a wiring diagram of an internal house wiring starting from energy meter and explain briefly the items used in the wiring.
 - 4) What are the factors depends for selection of size of conductors for over head transmission line.
 - 5) Where and why following materials are used.
 - a. AB switch
 - b. Barbed wire
 - c. Egg type insulators
 - d. Isolators

6) Write short notes on pole mounted substation and plinth mounted Substation.

7) Shorts notes on method of wiring.

8) A pole for required high tension on 11 KV ,3 phase, 50 cycles line is required to be earthed and a stay provided. M ake a neat sketch of the pole , stay , wire, stay plate , earthing and other components required for the purpose . Prepare a complete list of materials with specification of each items.

9) Draw a neat sketch of a stay which will be provided at the end pole with required materials

15 /20 MARK QUESTIONS

1) A newly constructed single storeyed house is to be provided with single phase 230 volts,50 HZ having a load of 5 KW(light,fan,socket). The supply is to be given from overhead line 20 mt. away from the building. Prepare a list of the material,for giving sevice connection and also estimate the cost of the service connection. A G.I pipe is to be raised along the roof to receive bare conductor on its cross arm fitted with insulators. Also draw sketch of service connection.

2)A newly constructed single storeyed house is to be provided with single phase 230 volts,50 HZ having a load of 4 KW. The supply is to be given from overhead line 30 mt. away from the building. Prepare a list of the material,for giving sevice connection and also estimate the cost of the service connection.

- 3) Prepare a list of material and estimate the cost for giving service connection to a double storeyed building having two energy meters. The supply is to be given at 230 volt single phase having a load of 4 sub-cicuit (light, fan) and two 15 amp socket points on each floor . The supply is to be given from overhead line 20 metres away from the building . Also draw diagram of service connection.
- 4) Q.1 Estimate the cost of a pole mounted sub-station of capacity 50 KVA transformer of rating 11/0.5 KV. The H.T line is available about 50 metres from the proposed site. Also make a neat sketch of the pole mounted substation.
- 5) Q.1 In a city locality, an overhead distribution line of 400 volts, 3 phase ,50 cycle/sec. is to be erected along a straight route on steel tubular poles. The length of the line is 500 metres and the line terminates at the ends. The span between adjacent poles is 50 mts. The street light conductors are also supported on the same poles. Make a neat sketch of the last 2-3 poles and estimate the quantity of material required for installing the distribution line with full specification of each items. Other details of the line are suggested as under.

ACSR conductors are phase lines, neutral and street light conductor of size $6/1 \times 2.11$ (squirrel conductor). Earth wire 8 SWG, Galvanised iron

6) A tube well owner wants 3 phase,4 wire power connection to his 10 BHP motor from an over head double pole structure having of 25 KVA ,11/0.4 KV.
The double pole structure is 300 metres away from tube well. Estimate the quantity of materials required for erecting a line and for giving a service connection to the tube well motor. Also draw neat sketch of the same

7) Estimate the quantity of material required for the construction of 1 kilometre overhead line. The line is tapped from the existing 11 KV line to feed a particular locality. The particulars of the important materials to be used for the line to be erected are as follows.

1.Size of conductor : ACSR 6/1 \times 2.59 mm

2. Tubular pole or supports of 11 metres length 3.

3.Size of earth wire : G.S (galvanized steel) 8 SWG

4. Average span length=100 mts.

5.No. of earthing sets to be installed:3 nos.

8)Estimate the material and cost for the construction of 1 kilometre overhead line. The line is tapped from the existing 11 KV overhead line. Assuming that the line is passing over the main road, telegraph line and railway line. Given data.

9) A small workshop of size 11m X 6 m X 4m high is under construction . it is required to be provided with the following electrical power connection for motors. The electrical connection to motor are to be taken along wall i.e the floor is not to be provided with any wiring trench.

1. one 5 HP three phase motor for lathe.

2. one 3 HP three phase motor for a small lathe

3. one 2 HP three phase induction motor for an automatic tool manufacturing machine.

4. one drilling machine driven by a single phase one HP motor

5. one grinding machine driven by 0.5 HP single phase motor

DC Power Freansmission Technology

2 marche Questions.

What is break-even distance of HVDC Heansmession line.
What are the pl problems of AC interconnection
What are the disadvantages of DC Heansmission.
What is energy availabling of HVDC treansmission.
What is transient reloability of HVDC system.
What are the applications of HVDC treansmission.
What are the applications of HVDC treansmission.
What are the different types of Filters used in HVDC system.
What is SCR (short circueit Ratio) of ECHVDC system.

Desure les advantages of. DC treansmission. Desure the applications of DC treansmission. Desure different types of DC link with diagram. Desure the planning fore HVDC treansmission. (4) Emplaien the planning fore HVDC treansmission.

10 Mareks Questions

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What are the Comment Careful in a HVER System.

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the difference appression have when the

Chapters-3 Converter and HVDC system Control 2 marcks Question. () What is indovidual phase contreal. 3 What is requiredistance phase control. (3) What are the disadvantages of individual phase control (1) where is VDCOL and where is is used. The why telecommunication lines are required in HVDC syste (5) What is Emergency control. to be for the second to the second first and 5 marks Question. (1) Explain converter control characteristics of a converter station . 2 Explain Control Hrearchy of a DC link. (3) Explain Start-up of DC link marke an (4) What are the requirements of Telecommunication. ALL DIER FIRTH 10 marties Question. MARLE CARLING (2) Explain principle of DC link Control (3) Describe individual phase control of HVDC system. (3) Explain Energization and Deenergezation of a Bridge (P Explain powere control in HVDC system with glageen. Œ Chapter-4 Converter feults and protection 2 marchs Question 1) What are the common faults in a HVDC system 2) What is Arcback fault. 3) what is account oritination fault. (9) What is the difference between Arc through and misfire fault. (3) What are the types of overevoltages which may occurs in HVDC system. (6) What is surge Arcocesters.

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& marks Questions · Walkerson Street 1) Explain mosferre fault. (3) What are the disturbance on AI side of HVDC system. 3 What are the disturbance on DI scale of HVDI system. () What are the enternal converter disturbances which cause overvoloages. - Reparation of the second 10 marks Question DExplain protection system of HVD(transmission againt over currier with dragtian. 2) Describe commutation failure 21-1-1 3) Explain overvoltage protection in a converter station, (3) Chapterr-5 Smoothing Reactor and DC line 2 marils Question. (2) what is smoothing reacton. (2) What is corrona in HVDC Heansmossion we we have a requirement (3) What is space charge field. (1) What is the function of DC Breabers 5 marchs Questions () What are the functions of smoothing Reactors. 3 What are the effects of Corcona in HVDC link. () limit in the structure of server in the 10 marks Question 1) Explain the Working construction and working of D'C Breakets in a single with the 3 What is corrona is HVOC link and what are the effects of corcona "unsustant and the main particle 10151 Salarah

Reactive Powen Control. North March 199 (1) what are the repartive power sources used in HVDC 3) Why Realtive power sources are required in HUDC treansmission (3) What is synchronous condenser. (1) what is SVC. and to recent metalogen ((5) What is station . an apprending the second of the (What is FC-TCR. annoutaness have been (7) What is TCR-TS(. and a secondary approximation of a company and see . 5 marchs. () Explain Dofferent types of SUDSV(. 10 marchs. 1) What are the different types of reactive power focurus used in HVDC transmission and explain them. ALL SPORT CAMPAN Introduction to Mubriteremonal DC System 2 marts mores Successioner D What is MIDC system. (2) Why MTDC system is requested. (3) What are the advantages of merk MTDC system. what is the disadvantage of serves MTDC system. \mathbb{D}

(100) apprendent of the state of a first and a series 5 marches. 1) what are the potential application of MTDC system. (2) & Enplain different types of MTDC system 3) What are the difference between services and parallel MTDC system.

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Chapter-2 (Ha Thyrastore Value) 2 marches Questions. 1) What is thyreastor . 2) What is gate dreve 3) Defone thyreistore value. 4) What are the recent triends of HVDE valuer. 5) What the considereasions in value design. 6) Dreau layer dragrecen and symbol of thyrcoston. 5 Marches Questions 1) Explain V-I charactereistics of thyreaston. 2) Explain the working of a thyreistor. (modes of operation). 3) What are the value design consideration. 10 Mareles Question 1) Enploin scientehing characteristics of thyreistore.