

ANNA UNIVERSITY :: CHENNAI - 600 025
OFFICE OF THE CONTROLLER OF EXAMINATIONS

Assessment Details Entered

APRIL / MAY EXAMINATION, 2019 - EXAMINATIONS

Inst Code & Name : 7209 - J C T COLLEGE OF ENGINEERING AND TECHNOLOGY

PE6811

170

180

85

Reg. No. :

720916219033

Question Paper Code : 53531

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2019.

Sixth Semester

Petroleum Engineering

PE 6606 — NATURAL GAS ENGINEERING

(Regulation 2013)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — ($10 \times 2 = 20$ marks)

1. How is kerogen formed?
2. Distinguish between Wet gas and dry gas.
3. What are the main components of natural gas?
4. Write any four unit operations involved during field handling of natural gas.
5. How do natural gas compressor stations work?
6. A natural gas pipeline, NPS 20 with 0.500 in wall thickness, transports 100 MMSCFD. The specific gravity of gas is 0.6 and viscosity is 0.000008 lb/ft.s. Calculate the value of the Reynolds number of flow. Assume the base temperature and base pressures are 60°F and 14.7 psia, respectively.
7. What are the minimum basic characteristics required to design piping system?
8. State the purpose of continuity equation in natural gas engineering.
9. Define isochronal tests for gas wells.
10. Expand BHFP, AOF, IPR.

PART B — ($5 \times 13 = 65$ marks)

11. (a) Discuss in detail about the origin of petroleum using the theories.

Or

- (b) On the basis of phase behaviour, classify and discuss the types of gas reservoir with suitable diagrams.

12. (a) (i) Name the fractionators used for natural gas liquefaction. (5)
(ii) With a neat sketch, discuss in detail the acid gas removal by absorption. (8)

Or

- (b) What are the formation conditions of gas hydrates? Write the prevention methods of hydrate formation. (13)
13. (a) Derive the continuity equation for steady one dimensional flow of gas in the reservoir.

Or

- (b) Discuss the principle and working of
- (i) Positive displacement compressor and reciprocating piston compressor (7)
(ii) Rotary screw compressor. (6)
14. (a) (i) Derive the Weymouth equation to calculate gas flow in pipelines. (8)
(ii) Write the equation to calculate flowing bottom hole pressure. Write its importance. (5)

Or

- (b) Derive the pressure loss through the wellbore.
15. (a) How draw down tests are conducted in a well? Brief about pressure draw down test with advantage and shortcomings of the same.

Or

- (b) (i) Discuss in detail the single point test procedure and analysis for gas well deliverability. (8)
(ii) State the importance of stabilization time during deliverability testing of gas wells. (5)

PART C — (1 × 15 = 15 marks)

16. (a) Discuss on the various alternative energy sources to oil and gas world wide.

Or

- (b) Justify and Discuss the production and processing of natural gas progresses, its impacts on environment and economy.

Answer Key.

1. Natural Gas

Natural gas is a naturally occurring hydrocarbon gas mixture consisting primarily of methane but commonly including varying amounts of other higher alkanes and sometimes a small percentage of CO_2 , nitrogen, hydrogen sulphide or helium.

LPG :

Liquidified petroleum gas (LPG) liquid petroleum gas also referred to as simply propane or butane are skimmable mixture of hydrocarbon gases used as fuel in heating and cooking equipment and vehicles.

2. Petroleum Reserves :

Petroleum Reserves or oil reserves are amount of crude oil that can be technically recovered at a cost that is economically feasible at the present price of oil. Different classification of reserves are related to their degree & certainty.

The main type of oil reserves are as follows

Follows

- * Proven reserves
- * Unproven reserve
- * Strategic Reserve
- * Reserves
- * Unconventional reserves

3 The main composition of the natural gas are as follows

methane	-	93.9%
ethane	-	4.2%
propane	-	0.3%
butane	-	0.03%
Nitrogen	-	1%
oxygen	-	0.01%
Hydrogen	-	trace

4 The prevention of hydrate plug formation and side removal of hydrate plugs represent 70% of deep water assurance challenges, the remaining 30% deal with well scale, corrosion and asphaltenes

The technologies for hydrate plug prevention

are as follows

- * Dispersant
- * Kinetic Inhibitors
- * Emulsifiers
- * Slurry flow
- * Insulation and heating

5 Condensate Stabilization

hydrocarbon liquids originating from the stream of natural gas or associated gas streams used to be considered a waste or byproduct streams and were conserved stored off. This waste can be converted into a byproduct through the process called condensate stabilization

Power requirement of a compressor is expressed as

$$P = \frac{\gamma Q_1 P_1}{\gamma - 1} \left[\left(\frac{P_2}{P_1} \right)^{\frac{\gamma-1}{\gamma}} - 1 \right]$$

Adiabatic efficiency is denoted as

$$\eta = \frac{\left[\left(\frac{P_2}{P_1} \right)^{\frac{\gamma-1}{\gamma}} - 1 \right]}{\left[\frac{P_2}{P_1} \left(\frac{\gamma-1}{\gamma} \right) - 1 \right]}$$

PSEUDO - pressure :-

Pseudo - pressure is a mathematical pressure

function that accounts for the variable compressibility and viscosity of gas with respect to pressure. It is often associated with pseudo time.

c) Absolute open flow [AOF]

Absolute open flow [AOF] is defined as a well in the rate at which the well would produce against zero sand face bulk pressure. It is well to measure of gas well performance. because it quantifies the ability of a reservoir to deliver gas to the well bore.

9. The Non Dimensionless form of equation (8) can be obtained as follows. A two dimensional steady flow and ignored normal stress T_{xx} and T_{yy}

Non-dimensional variable:

$$\bar{u} = \frac{u}{V_{\infty}} ; \quad \bar{v} = \frac{v}{V_{\infty}} ; \quad \bar{x} = \frac{x}{L} ; \quad \bar{y} = \frac{y}{L}$$

where V_{∞} are free stream parameter

L is the reference length

10. compressible flow is the branch of fluid mechanics that deals with flows having significant changes in fluid density. gases mostly display such behavior. the study of compressible flow is a relevant to high speed ~~drifts~~ air craft engines, rocket motors, high speed entry into a planetary atmosphere. gas pipe commercial applications such as abrasive blasting and other fields.

Compressible Flow

The flow of gases in pipe systems is common place. Incompressible gases fluids. Unfortunately the design and analysis of gas flows are considerably more complicated than for liquid flows. due mainly to pressure induced variation in the gas stream density and velocity.

As to Darcy - Weisbach Equation

$$\Delta P = - \left[f \frac{L}{D} \left(\frac{1}{2} \rho V^2 \right) + \rho g dz \right] \quad \text{--- (1)}$$

where f = friction factor

--- (1) is not strictly applicable to compressible flow because density and velocity change along the pipe. Sometimes the gas flows taking the average density and velocity. because the variations at each of these parameters along a pipe is not linear the average will be incorrect.

Mass:

$$\frac{d\rho}{\rho} + \frac{dV}{V} = 0$$

Momentum

$$dp + \frac{1}{2} \rho V^2 \frac{dz}{D} + \rho g dz = 0$$

Energy =

$$h + \frac{1}{2} V^2 + g z = \text{const}$$

$$\rho = \frac{1}{V}$$

mechanics
changes in
behaviour
to high
is high
gas
and

Equation 3

$$P = \rho R T$$

Mach number

$$M = \frac{V}{\sqrt{\gamma R T}}$$

The main assurance that the pipe diameter is constant

- * they assurance that the pipe diameter is constant
- * they are applicable not only to individual properties but also to mixture, so long as appropriate properties are used

Compressible Flow at Choke

Alc to Bernoulli's Equation

$$\frac{1}{2} \bar{u}^2 + \frac{P}{\rho} = \frac{1}{2} (\bar{u} + d\bar{u})^2 + \frac{P + dP}{\rho}$$

$$\Rightarrow \frac{1}{2} \bar{u}^2 + \frac{1}{\rho} (\bar{u} + d\bar{u})^2 - \frac{dP}{\rho} - \frac{1}{\rho} \frac{dP}{d\bar{u}} d\bar{u} = 0$$

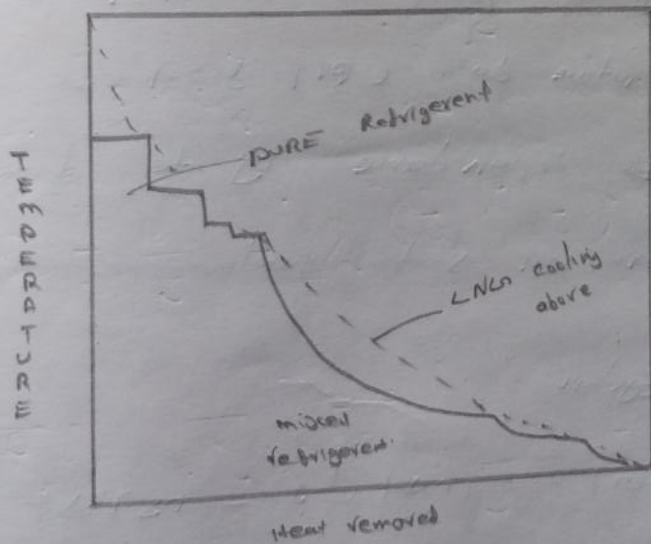
$$d\bar{u}^2 = 0$$

$$\bar{u} d\bar{u} + \frac{d\bar{u}}{\rho} + \frac{1}{\rho} \bar{u}^2 d\bar{u} = 0$$

Flow is choked

Natural Gas LIQUIDIFICATION

The liquidification process is the key element of the LNG plant. Liquidification is based on a refrigeration cycle, where a refrigerant by means of successive expansion and compression, transport heat from the process side to where the natural gas is. LNG plants often consist of a number of parallel units, called trains, which treat and liquify natural gas and then send to LNG & several storage tanks. The capacity of a liquidification train is primarily determined by the liquidification process - the refrigerant used, the largest available size of the compressor.



The basic principle for cooling and liquifying the gas using refrigerant, matching as closely as possible the cooling / heating curves of the process gas and the refrigerant. The principle results in a more efficient thermodynamic process, requiring less power per unit of LNG produced and thus supply cost.

the liquefaction process typically accounts for about 45% of the capital cost of the overall LNG plant, which in turn accounts for 45% to 35% of total project cost and when including the regasification facility and the dedicated vessels for transport.

Equation of State:

An Equation of state (EOS) is a simple mathematical model that calculates thermodynamic properties and equilibrium.

To develop the EOS we need equation that relate the thermodynamic quantities in terms of pressure, volume, and temperature data (PVT data) as we want to eliminate any path dependence by the eliminating properties that are not state function.

For closed system

$$d(nU) = (nV) dp - (nS) dT \quad \text{--- (1)}$$

For an open system

$$d(nU) = (nV) dp - (nS) dT$$

An alternative method to obtain energy and entropy change for real gases is determination of residual property. The specific is defined as follows.

$$m^R = m(T, P) - m^G(T, P)$$

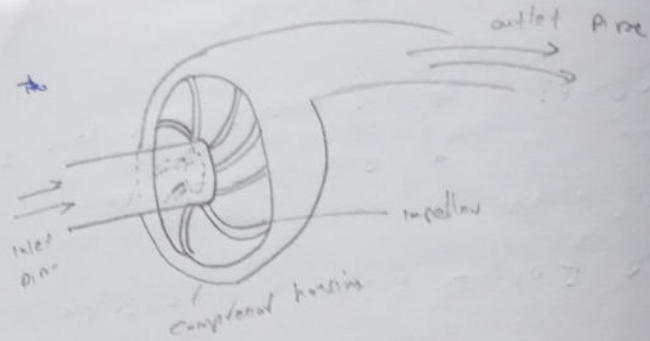
where $m(T, P)$ = specific property of a local gas at a given temp and pressure.

$m^G(T, P)$ = value of the same property if the gas were to behave ideally at the same temp and pressure.

The residual properties are usually used for gases only using such a property for a liquid is incorrect as there is a small but also included to property change of vaporization, which generally are in large magnitude.

CENTRIFUGAL COMPRESSOR

centrifugal compressors, sometimes termed as radial compressors are a sub class of dynamic axis symmetry where absorbing turbomachinery. In a centrifugal compressor a dynamic turbo machine achieves a pressure rise by adding kinetic energy / velocity to a rotating flow of fluid through the ratio of impeller. This kinetic energy is then converted to an increase in potential energy. static pressure by slowing the flow through a diffuser. The pressure rise in impeller is in most cases almost equal to the rise in the diffuser section.



The main part of the centrifugal compressor

as follows:

- * inlet pipe
- * outlet pipe
- * Diffuser
- * impeller
- * collector
- * Housing

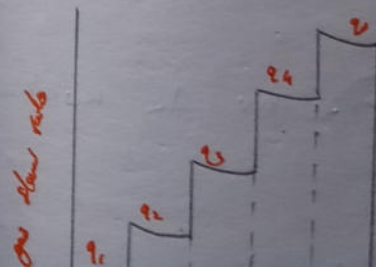
The main applications of the centrifugal compressors are as follows:

- * In gas turbine and auxiliary power unit
- * In automotive engine and diesel engine chargers or superchargers
- * In pipeline compressors of natural gas from the production site to the processing

- * Air conditioning and refrigeration at home
- * In industry to manufacture to supply compressed air for all types of pneumatic tools
- * In air separation plants to manufacture oxygen and product gases
- * In oil field to inject in a high pressure natural gas to improve oil recovery

Flow - After - Flow Test Methods

Flow after flow test methods, sometimes called as gas bubble pressure or flow gain tests are conducted by producing the well at a series of different stabilized flow rates and measuring the stabilized BHP at the same time. Each different flow rate is established in successive order with or without a very short interval make shut in period.



UNIVERSITY EXAMINATION QUESTION PAPER FEEDBACK FORM

(To be submitted to the Principal immediately after completion of University Examination for every Course)

1. This feedback form is intended for staff in-charge concerned to complete after consultation with their HoDs and teachers teaching similar courses in the college.
2. Please provide a comment on the following aspects of the question papers giving specific feedback where necessary
3. Your opinions are valued and would be greatly appreciated.

Course code and Title: PE 8302 & Fluid & Solid Operations

Dept: Petroleum Engineering

Year/Sem: II/III

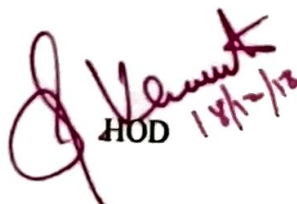
Exam.Date:

Staff in-Charge: G. MOHENDRAN Designation: Assistant Professor.

I Difficulty of the Paper		Part A	Part B
a) Number of Questions are easy		1-10	11-16
b) Number of Questions are average		-	-
c) Number of Questions are difficult		-	-
II Number and Percentage of questions for which answers are not discussed in the class		-	-
III Number and Percentage of questions from Question bank		1-10,	11, 12, 13, 14, 15, 16
IV List of Questions found out of syllabus (specify Question Number alone)			
Question No	Number of Questions	% of Questions	
a) Part - A	-	-	
b) Part - B	-	-	
VI We shall appreciate any further comment on other aspects of the question papers that have not been indicated above attach or write these comments separately below.			
expected pass percentage : 80%.			



STAFF IN-CHARGE



HOD 18/12/13



PRINCIPAL

ANNA UNIVERSITY :: CHENNAI 600 025

Internal Assessment Schedule for Non Autonomous Affiliated Institutions

Period : April/ May 2019 Examinations

For all UG/PG - Programmes Except II Semester (Full Time/Part Time)

Report No	Report Period	Test Period	Report Entry Period
I	19-12-2018 -- 11-01-2019	No Test	18-01-2019 -- 23-01-2019
II	12-01-2019 -- 07-02-2019	01-02-2019 -- 07-02-2019	07-02-2019 -- 12-02-2019
III	08-02-2019 -- 01-03-2019	23-02-2019 -- 01-03-2019	01-03-2019 -- 06-03-2019
IV	02-03-2019 -- 22-03-2019	18-03-2019 -- 22-03-2019	22-03-2019 -- 23-03-2019

For all UG/PG - Programmes II Semester (Full Time)

Report No	Report Period	Test Period	Report Entry Period
I	21-01-2019 -- 12-02-2019	No Test	12-02-2019 -- 16-02-2019
II	13-02-2019 -- 06-03-2019	28-02-2019 -- 06-03-2019	06-03-2019 -- 11-03-2019
III	07-03-2019 -- 28-03-2019	22-03-2019 -- 28-03-2019	28-03-2019 -- 02-04-2019
IV	29-03-2019 -- 22-04-2019	13-04-2019 -- 22-04-2019	22-04-2019 -- 23-04-2019

Saturdays may be included as working days to make good the Shortages, if any.


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Date: 23/03/2019

NOTIFICATION

It is informed that Theory Examination scheduled for April/May 2019 Examinations of Anna University pertaining to **all Affiliated Colleges** for the **UG** Degree Programmes are rescheduled for the following dates. The details are given below. This may please be brought to the notice of the students and staff concerned.

Date of Exam Originally Scheduled	Rescheduled Date of Exam
27.04.2019 F.N and A.N – Saturday	11.05.2019 F.N and A.N – Saturday (Except CS6702)
11.05.2019 F.N and A.N – Saturday (Except R-2017) UG	18.05.2019 F.N and A.N – Saturday (Except R-2017) UG


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ANNA UNIVERSITY CHENNAI-600 025
TIME TABLE U.G. DEGREE EXAMINATIONS - APRIL/MAY - 2019

CHANGES

Anna University, Chennai

B.E Mechanical Engineering(Sandwich)

Regulations : R-2013

SUBJECT CODE	SUBJECT NAME	Sem	Original Date	Session	Revised Date	Session
MA6453	Probability and Queueing Theory	04	02-MAY-19	:FN	17-MAY-19	AN

B.E. Computer Science And Engineering

Regulations : R-2013

SUBJECT CODE	SUBJECT NAME	Sem	Original Date	Session	Revised Date	Session
CS6702	Graph Theory and Applications	07	27-APR-19	AN	02-MAY-19	:FN
MA6453	Probability and Queueing Theory	04	02-MAY-19	:FN	17-MAY-19	AN

B.Tech. Bio Technology

Regulations : R-2013

SUBJECT CODE	SUBJECT NAME	Sem	Original Date	Session	Revised Date	Session
PC6601	Process Instrumentation Dynamics and Control	07	09-APR-19	:FN	16-APR-19	:FN

B.Tech. Information Technology

Regulations : R-2013

SUBJECT CODE	SUBJECT NAME	Sem	Original Date	Session	Revised Date	Session
CS6702	Graph Theory and Applications	08	27-APR-19	AN	02-MAY-19	:FN
MA6453	Probability and Queueing Theory	04	02-MAY-19	:FN	17-MAY-19	AN

B.Tech. Petrochemical Technology

Regulations : R-2013

SUBJECT CODE	SUBJECT NAME	Sem	Original Date	Session	Revised Date	Session
PC6601	Process Instrumentation Dynamics and Control	06	09-APR-19	:FN	16-APR-19	:FN

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Provisional Results of April / May Examination,2019.

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Inst.Code/Name : 7209 - J C T COLLEGE OF ENGINEERING AND TECHNOLOGY

Semester No. : 08

DATE OF PUBLICATION :DD-MM-YYYY

Branch : 219-B.Tech. Petroleum Engineering

Reg. Number	Subject Code - >	GE6075	GE6757	PE6010	PE6801	PE6811
Reg. Number	Stud. Name	Grade	Grade	Grade	Grade	Grade
720913219025	KRISHNA MOORTHY R					
720913219036	RANJITH M					
720913219043	SHIDEV K.D					
720913219401	HARISH M					
720914219001	AJIN SCARIA MATHEW S					
720914219003	AJITH RAJ R					
720914219009	ARUN NATH R					
720914219012	BALAJI S		E			
720914219015	DAINGEL T D					
720914219033	MOHAMED ASHARDEEN S		E			
720914219042	NISHANTHAKUMAR M			C		
720914219057	SRINIVASH M					
720914219502	JACKS JOSE					
720915219001	ABHIJITH T O	B		B	C	A
720915219002	ABIJITH K S	C		A	B	A
720915219003	ADITH KRISHNAN K R					
720915219004	AKCHAY V					
720915219005	AKSHAYAJOTHI C	C		A	B	A
720915219006	AKSHITH N S					
720915219007	AMBER ALI S	B		A	A	A
720915219009	ARAVINDAN M	C		B	C	A
720915219011	ARUL L (16-01-1998)	C		C	C	A
720915219012	ARUN PRAKASH M					
720915219013	ASHFAQ AHMED FAROOK J	C		A	C	S
720915219014	BIBIN P B	C		A	B	A
720915219015	DEBIN DAVIS					
720915219016	DHANRAJ S	C		A	B	S
720915219018	FEMINA MARGRET S	A		A	A	S
720915219019	FREDARIC JOY S					
720915219020	JAYA SURYA S	C		A	A	S
720915219021	JESSIN THOMAS VARGHESE	B		A	C	A
720915219023	KAJUN NISHAN M					
720915219024	KIRUBA M	B		A	S	S

W - Withdrawal I - Inadequate Attendance

WH1 - Withheld for Suspected Malpractice WH(others) - Withheld for want of Clarification,approval,etc.

22-05-2019

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Provisional Results of April / May Examination,2019.

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720915219025	KISHORE A	C		C	B	A
720915219026	MIDHUN B KUMAR B					
720915219027	MUHAMMAD FOUSAN M A	E		B	C	A
720915219029	MYDEEN K	E		C	B	A
720915219030	NAVEEN CHANDER M	C		B	B	A
720915219031	NAVEENKUMAR B	C		B	B	A
720915219032	NESAMANI M					
720915219034	NISHANTH G	E		A	B	S
720915219035	PARTHIPAN A P					
720915219036	PETHU RAJ B (05-07-1998)					
720915219038	PREMANAND S					
720915219039	PRISTIN FRANCIS T	B		B	B	A
720915219040	RAMAN B	B		B	A	S
720915219041	RAMKUMAR S					
720915219042	RATHNA KUMAR P	C		C	C	A
720915219043	ROHIT MARK N	E		C	C	A
720915219044	SAJIN JOSE	C		A	A	S
720915219045	SARAN KUMAR K M	A		A	A	S
720915219046	SARATH A	C		C	B	A
720915219047	SARATH VIJAYAN					
720915219048	SATHISH KUMAR S					
720915219049	SHAMAS S	D		B	C	A
720915219050	SHAMEER S	E		B	B	A
720915219051	SHEIK AHAMED TAJUDEEN S	C		A	A	S
720915219052	SHEIK MOHAMED FAZIL M	E		B	A	A
720915219053	SRUTHI V	B		A	A	A
720915219054	SUJITH S (26-09-1997)					
720915219056	SUNDARA PANDIYAN S	C		B	A	B
720915219057	SURENDAR K	C		B	B	A
720915219058	SURIYA S					
720915219059	THAJUDEEN S	C		A	C	A
720915219060	VENKADASALAPATHI V					
720915219061	VIKRAM V					
720915219062	VINOTH KUMAR T	D		B	B	A
720915219063	YOGESHWARAN B					
720915219064	SIDHARTH M GOPI	B		S	A	A
720915219301	LESJIN JOE MATHEW					

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WH1 - Withheld for Suspected Malpractice WH(others) - Withheld for want of Clarification,approval,etc.

22-05-2019

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Inst.Code/Name : 7209 - J C T COLLEGE OF ENGINEERING AND TECHNOLOGY

Semester No. : 01

DATE OF PUBLICATION :DD-MM-YYYY

Branch : 219-B.Tech. Petroleum Engineering

	Subject Code - >	CY8151	GE8151	MA8151	PH8151
Reg. Number	Stud. Name	Grade	Grade	Grade	Grade
720918219011	FAIYAZ F				B
720918219019	MOHAMMED SHAHIN SHA Z			B	
720918219022	SANJEEV R	NC			
720918219024	SANTHOSH J			NC	
720918219025	SANTHOSH KUMAR P			B	NC
720918219026	SARAN S				NC
720918219028	SARAVANAN S			NC	
720918219030	SHAHUL HAMEED S				NC
720918219035	SIJIN S R		NC		
720918219036	SIVANESH S				NC

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WH1 - Withheld for Suspected Malpractice WH(others) - Withheld for want of Clarification,approval,etc.

14-08-2019

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Inst.Code/Name : 7209 - J C T COLLEGE OF ENGINEERING AND TECHNOLOGY

Semester No. : 02

DATE OF PUBLICATION :DD-MM-YYYY

Branch : 219-B.Tech. Petroleum Engineering

	Subject Code - >	BE8256	CY8291	HS8251	MA8251	PE8201	PH8254
Reg. Number	Stud. Name	Grade	Grade	Grade	Grade	Grade	Grade
720917219041	NAVEEN R						NC
720917219046	PRADEESH M						NC
720917219054	SRIRAM S R				NC		NC
720917219055	SUNDARAPANDIYAN M					NC	
720918219002	AMAL PAUL SHAJU	NC					
720918219014	HARIPRASATH P	NC					
720918219015	JOESTEEVE S VELIYATH	B					
720918219019	MOHAMMED SHAHIN SHA Z	NC					NC
720918219024	SANTHOSH J	NC		B			NC
720918219025	SANTHOSH KUMAR P	NC					NC
720918219026	SARAN S	B					
720918219028	SARAVANAN S	B					
720918219040	THEKSHIN KARTHIK MA S		NC		B		

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Inst.Code/Name : 7209 - J C T COLLEGE OF ENGINEERING AND TECHNOLOGY

Semester No. : 03

DATE OF PUBLICATION :DD-MM-YYYY

Branch : 219-B.Tech. Petroleum Engineering

	Subject Code - >	EE8352	GE8292	MA8391	PE8301
Reg. Number	Stud. Name	Grade	Grade	Grade	Grade
720917219007	AMRITHA N KRISHNA			NC	
720917219016	DHIVAKAR S		NC		
720917219020	GNANA SEKARAN S				NC
720917219039	NANTHA KUMAR S	NC			
720917219041	NAVEEN R	NC			
720917219046	PRADEESH M	NC			
720917219052	SALMANKHAN S	NC			
720917219301	HARIHARAN S		NC		

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WH1 - Withheld for Suspected Malpractice WH(others) - Withheld for want of Clarification,approval,etc.

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Inst.Code/Name : 7209 - J C T COLLEGE OF ENGINEERING AND TECHNOLOGY

Semester No. : 04

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Branch : 219-B.Tech. Petroleum Engineering

	Subject Code - >	CY8292	PE8401	PE8402	PE8403	PE8491
Reg. Number	Stud. Name	Grade	Grade	Grade	Grade	Grade
720917219016	DHIVAKAR S	B	NC			NC
720917219020	GNANA SEKARAN S			NC		
720917219027	KAVIYARASU M	NC				
720917219039	NANTHA KUMAR S					NC
720917219040	NAVANEETHAN N					NC
720917219041	NAVEEN R					NC
720917219045	PAVITHRAN K					NC
720917219046	PRADEESH M		NC	NC		
720917219054	SRIRAM S R		NC	NC		NC
720917219301	HARIHARAN S	NC			NC	

W - Withdrawal I - Inadequate Attendance

WH1 - Withheld for Suspected Malpractice WH(others) - Withheld for want of Clarification,approval,etc.

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PROFILE

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ASSESSMENT

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ELECTIVE

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Student Profile

Register Number

720917415004

Name

PRIYADHARSINI S

Institution

7209 - J C T COLLEGE OF ENGINEERING AND TECHNOLOGY

Branch

415-M.E. Power Electronics and Drives

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