

Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2018

Course: Fundamentals of Mainframe and skills (CSMT 1002)

Semester: I

Programme: B.Tech (CSE with specialization in Mainframe Technology)

Time: 03 hrs.

Max. Marks: 100

Instructions: All sections are compulsory.

SECTION A

S. No.		Marks	CO
Q 1	Write the name of any four operating systems that run on IBM mainframe hardware.	4	CO1
Q 2	Memorize the default options in ISPF to allocate a dataset and to view a dataset.	4	CO2
Q 3	State the significance of Record Descriptor Word (RDW) and Block Descriptor Word (BDW) in variable block record format.	4	CO3
Q 4	Define the term "System Display Search Facility (SDSF)".	4	CO4
Q 5	Write the name of programming languages supported by z/OS.	4	CO5

SECTION B

Q 6	Differentiate between batch processing and online transaction processing workloads.	10	CO1
Q 7	Write the role of management class, storage class, primary quantity and secondary quantity during allocation of a PDS in z/OS.	10	CO2
Q 8	Describe the function keys used for scrolling in ISPF. Also discuss the meaning of values (CSR, DATA, PAGE, MAX) that user can enter on scroll amount field.	10	CO3
Q 9	Discuss the phases involved in application development life cycle. OR Describe various methods used to invoke the z/OS Unix Shell interface.	10	CO5

SECTION-C

Q 10	Elaborate significance of ISPF edit profile in z/OS. Discuss following edit profile options in detail with example: a) RECOVERY b) STATS c) AUTOSAVE d) CAPS	20	CO3
Q 11	Elaborate the role of Job Entry System (JES) in z/OS. Explain the phases involved in Job Entry System- 2 (JES-2) job processing. OR Describe the following terms: a) JCL b) JCL statement format c) JOB statement in JCL d) EXEC statement in JCL	20	CO4

e) DD statement in JCL		
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SECTION A

S. No.		Marks	CO
Q 1	Differentiate between central processor and system assistance processors.	4	CO1
Q 2	Write the steps to perform log-on in z/OS using emulator.	4	CO2
Q 3	Define high-level qualifier and low-level qualifier of dataset name in z/OS.	4	CO3
Q 4	Memorize the batch processing operation mode.	4	CO4
Q 5	Illustrate the process to start z/OS UNIX Shell session from TSO/E environment.	4	CO5

SECTION B

Q 6	Describe the term Service Level Agreement (SLA) and its relation with workload.	10	CO1
Q 7	Elaborate fixed, variable, fixed block and variable block record formats for datasets in z/OS.	10	CO2
Q 8	Write the steps to copy a record written in one PDS member to another PDS member using ISPF.	10	CO3
Q 9	Describe the phases of JES-2 job processing along with its diagram. OR Discuss the role of JCL in mainframe environment. Describe the format of JCL statements.	10	CO4

SECTION-C

Q 10	Discuss the process to locate a dataset using z/OS integrated catalog facility. Write the significance of master catalog and user catalog during locating a dataset in z/OS with the help of flow diagram.	20	CO3
Q 11	Describe the role of POSIX in Mainframe environment. Discuss the types of open system interfaces used to move application across platforms with little or no modifications. OR Elaborate the following: a) Phases of application development life cycle b) Software Configuration and Library Management	20	CO5

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