Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, July 2020

Programme Name: B.Tech CS+DevOps Semester: IV
Course Name: Build and Release Management Time: 02 hrs
Course Code: CSDV 2002 Max. Marks: 100

Nos. of page(s) :

Instructions:

SECTION A (20 Marks)

S. No.		Marks	CO
Q1.	In which environment a build switch after UAT phase?		
	a) QA		
	b) STAGING	1.5	CO ₃
	c) DEV		
	d) PRODUCTION		
Q2.	UAT environment for a build is accessible for which of the following team.	1.5	
	a) Development		
	b) Testing		CO4
	c) Business Users		
	d) None		
Q3.	Which is not a build management process?	1.5	
	a) Build Execution		
	b) Build Definition		CO1
	c) Build Reporting		
	d) Build Testing		
Q4.	Which is not a way for build execution?	1.5	
	a) Manual Invocation		
	b) Automatic Schedule		CO1
	c) Source Code Trigger		
	d) Automatic Invocation		
Q5.	Which of the following build execution result is not recorded in Build Reporting?	1.5	
	a) Compilation reports		
	b) Acceptance Testing Report		CO ₂
	c) Unit Test reports		
	d) Release Report		
Q6.	Which is not a Build life cycle phase?	1.5	
	a) Clean		CO1
	b) Compile		COI
	c) Execute		

	d) Test		
Q7.	In which build phase, only latest or agreed on code changes are build.	1.5	
V / ·	a) Build Definition	1.0	
	b) Build Execution		CO1
	c) Build Identification		
	d) Build Reporting		
Q8.	Which is not a phase in Release Management?	1.5	
	a) Release Planning		
	b) Release Scheduling		CO4
	c) Release Authorization		
	d) Release Packaging		
Q9.	What is the advantages of Release Management?	1.5	
	a) Configuration Management		
	b) Testing Management		CO4
	c) Query Management		
010	d) None	1.5	
Q10.	Code signing and sign off criteria for release involved in which phase of release	1.5	
	management?		
	a) Release Planningb) Release Authorization		CO3
	c) Release Deployment		
	d) Release Packaging		
Q11.	Scope and Content of a release is set in which phase of Release Management	1.5	
Q11.	a) Release Planning	1.0	
	b) Release Authorization		CO4
	c) Release Deployment		
	d) Release Packaging		
Q12.	Approval is performed in which phase of Release Management?	1.5	
	a) Release Deployment		
	b) Release Planning		CO4
	c) Release Authorization		
	d) Release Packaging		
Q13.	Which is not basic element of POM?	1.5	
	a) Project		
	b) modelVersion		CO2
	c) ArtifactID		
014	d) ArtifactName	1 7	
Q14.	Which of the following repository is maintained by private organization?	1.5	
	a) Local b) Remote		CO2
	c) Central		
	d) None of them		
Q15.	What is the location of local repository in user system?	1.5	
213.	a) user_home/.m2/repository	1.0	~ -
	b) user_home/repository/.m2		CO2
	c) user_home/maven/repository		
L			1

	d) user_home/repository/maven		
Q16.	Which is the default repository used in maven?	1.5	
Q 10.	a) Local		
	b) Remote		CO2
	c) Central		
	d) None		
Q17.	Which is not a type of dependency scope?	1.5	
	a) Test		
	b) Compile		CO3
	c) Provided		
	d) Package		
Q18.	Select the phase from following, in which artifact is not searched in repository.	1.5	
	a) Test		004
	b) System		CO4
	c) Runtime		
010	d) Compile	1.5	
Q19.	Why maven is extremely powerful?	1.5	
	a) Transitive Dependency Featureb) Build Management Feature		CO3
	c) Central Repository Feature		COS
	d) None		
Q20.	Which is not a feature of Transitive Dependency?	1.5	
Q20.	a) Dependency Mediation	1.5	
	b) Dependency Score		CO4
	c) Dependency Searching		
	d) Excluding Dependency		
Q21.	Which is not a type of product documentation?	1.5	
	a) Requirement Documentation		
	b) User Manual		CO4
	c) Source Code		
	d) Scheduling Documentation		
Q22.	Which is not a stage in site plugin?	1.5	
	a) Generating a Site		
	b) Running a site		CO4
	c) Staging a site		
0.22	d) Testing a Site		
Q23.	Which is not a phase in Maven Site Lifecycle?	1.5	
	a) Site		001
	b) Pre-site		CO1
	c) Site-Test		
024	d) Site-Deploy Which protocol is not used in maven3?	1.5	
Q24.	a) HTTP	1.5	
	b) HTTPS		CO2
	c) FTP		002
	d) TCP		
	u) 101		

Q25.	Which is not a JUnit annotation?	1.5	
	a) @Test		
	b) @BeforeClass		CO3
	c) @Run		
	d) @After		
Q26.	Which is not a code coverage criteria?	1.5	
	a) Condition Coverage		
	b) Loop Coverage		CO3
	c) Inheritance Coverage		
	d) Exception Coverage		
Q27.	Which is not a code coverage tool?	1.5	
	a) Emma		
	b) Jacoco		CO3
	c) Cobertura		
	d) Nagios		
Q28.	Which kind of testing is performed in Code coverage?	1.5	
	a) System Testing		
	b) Unit Testing		CO3
	c) API Testing		
	d) JUnit Testing		
Q29.	How many phases are in Release Life cycle?	1.5	
	a) Four		
	b) Three		CO4
	c) Five		
	d) Six		
Q30.	High priority bugs can be fixed in Release Candidate?	1.5	
	a) True		CO4
	b) False		
Q31.	How do I determine which POM contains missing transitive dependency?	1.5	
	a) mvn -A		
	b) mvn -X		CO4
	c) mvn -R		
	d) mvn -M		
Q32.	If no packaging value has been specified in POM, what will the default?	1.5	
	a) jar		000
	b) POM		CO2
	c) ear		
0.00	d) war		
Q33.	Maven Plugins are generally used to:	1.5	
	a) compile code files.		~~
	b) unit testing of code.		CO2
	c) Both		
0.2.1	d) None		
Q34.	State True or False	1.5	000
	It is not possible to change the default repository of maven.		CO2
	a) True		

	b) False		
Q35.	There should be a single POM file for each project.	2.5	
	a) No		CO2
	b) Yes		
Q36.	What is a SNAPSHOT version?	2.5	
	a) The SNAPSHOT is 'older' than its release.		
	b) The 'latest' code along a development branch.		CO1
	c) Provides no guarantee the code is stable or unchanging		
0.25	d) All of These		
Q37.	What of the following is true about POM?	2.5	
	a) It is fundamental Unit of Work in Maven.		CO2
	b) It is an XML file.c) Both of the above.		CO3
	d) None of the above		
Q38.	Which generates source code to be included in compilation phase?	2.5	
Q36.	a) generate-test-sources	4.5	
	b) generate-sources		CO3
	c) generate-auto-configuration		003
	d) generate-resources		
Q39.	Which is not true about Apache maven compare to Apache ant?	2.5	
	a) Ant doesnot have formal project directory structure but maven has.		
	b) Ant doesnot have lifecycle but maven has.		CO2
	c) Ant is a toolbox whereas maven is framework.		
	d) Ant scripts are reuseable but maven plugins are not.		
Q40.	what would the "jar:jar" goal do?	2.5	
	a) It always recompile resources after that create jar from target/classes.		
	b) It is an invalid maven goal.		CO3
	c) None of these		
	d) It does not recompile resources hence create jar from target/classes.		
Q41.	Which of the following phases is not present in 'clean' Maven life cycle?	2.5	
	a) clean		002
	b) test-clean		CO2
	c) pre-clean		
Q42.	d) all are present Which of the following is true about 'build' Maven life cycle?	2.5	
Q+2.	a) It cleans up artifacts created by prior builds.	4.3	
	b) This is used to make jar file of the application.		CO1
	c) This generates site documentation for the project.		
	d) None		
Q43.	Which of the following is not a maven goal?	2.5	
	a) clean		
	b) debug		CO2
	c) package		
	d) install		
Q44.	Which of the following is correct about Goal in Maven?	2.5	CO4
	a) A goal represents a specific task which contributes to the building and		CO4

managing of a project. b) It may be bound to zero or more build phases. c) A goal not bound to any build phase could be executed outside of the build lifecycle by direct invocation. d) All of the above Q45. DevOps means A) Developers taking over all Operations tasks. B) Automating the process of software delivery and infrastructure changes. C) The collaboration and communication of both software developers and other information-technology (IT) professional while automating the process of software delivery and infrastructure changes. D) The collaboration and communication of just software developers and operations staff while automating the process software delivery and infrastructure changes. a) A b) B c) C d46. Is this statement correct? "DevOps is more than just a tool or a process change, it inherently requires an organisational culture shift." A) Yes, there needs to be cultural shift within the organisation across all stakeholders to ensure a successful adoption of a DevOps approach. B) Yes, but the most up to date tools and LEAN processes need to be in place to drive an organisational culture shift. C) No, DevOps is all about the tools. D) No, cultural shift will occur when staff are using the most up to date tools and LEAN processes. a) A b) B c) C d47. The adoption of DevOps is being driven by factors such as: A) Use of Agile and other development processes and methodologies B) Demand for an increased rate of production releases from application and business unit stakeholders C) Wide availability of virtualised and cloud infrastructure from internal and external providers D) Increased usage of data centre automation and configuration management tools Which factors are correct? a) A, B and C only b) B and C only c) B, C and D only d) All of the above				
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	Q48.	Which statement best describes the role of Change Management within a DevOps	1.5	
environment'?		environment?		004
A) Nothing changes as a risk adverse Change Management approach is paramount to		A) Nothing changes as a risk adverse Change Management approach is paramount to		CO4
IT and business success.				

	B) The moment an app change is asked for, the request should go to the Developers to authorise. Once authorised it goes to Operations for implementation. C) The moment an app change is asked for, the request should go out to everyone on the team, no matter which IT discipline they work in. D) DevOps does not need Change Management? a) A b) B c) C d) D		
Q49.	Which statement best describes the relationship between DevOps and Continuous Delivery? A) DevOps and Continuous Delivery are the same thing. B) DevOps and Continuous Delivery are not related and are mutually exclusive. C) DevOps and Continuous Delivery share a background in Agile methods and LEAN thinking. D) DevOps and Continuous Delivery share common processes. a) A b) B c) C d) D	1.5	CO4
Q50.	Which statement best describes the goal of DevOps? A) One goal of DevOps is to establish an environment where Change Management does bot control application releases. B) One goal of DevOps is to establish an environment where releasing more reliable applications faster and more frequently can occur. C) One goal of DevOps is to establish an environment where application development perform all operations tasks. D) One goal of DevOps is to establish an environment where releasing applications is valued over the quality of the released application. a) A b) B c) C d) D	1.5	CO4
Q51.	Which benefits of adopting a DevOps approach could be included in a business case to adopt a DevOps approach? A) Improved deployment frequency, which can lead to faster time to market B) Lower failure rate of new releases C) Shortened lead time between fixes D) Development of completely error free software a) A and C b) B and C c) A, B and C d) All are correct	1.5	CO1
Q52.	What does surefire plugin do in Apache maven? a) Compile the app b) Run test classes	1.5	CO4

	c) Run the app		
	d) Build the app		
Q53.	Agile and DevOps are similar but differ in a few important aspect. Which statement is correct?	1.5	
	A) Agile is a change of thinking whereas DevOps is actual organisation cultural change		
	B) Agile is actual organisational cultural change whereas DevOps is a change of		
	thinking.		CO1
	C) Agile is process driven whereas DevOps is role driven.		
	D) Agile is role driven whereas DevOps is process driven.		
	a) A		
	b) B c) C		
	d) D		
Q54.	Is this statement correct? "DevOps is more than just a tool or a process change, it	1.5	
Q34.	inherently requires an organisational culture shift"	1.5	
	A) Yes, there needs to be cultural shift within the organisation across all stakeholders		
	to ensure a successful adoption of a DevOps approach.		
	B) Yes, but the most up to date tools and LEAN processes need to be in place to		
	drive an organisational culture shift.		CO1
	C) No, DevOps is all about the tools. D) No, cultural shift will occur when steff are using the most up to data tools and		CO1
	D) No, cultural shift will occur when staff are using the most up to date tools and LEAN processes.		
	a) A		
	b) B		
	c) C		
	d) D		
Q55.	The development teams that support the Agile approach to DevOps must include	1.5	
	staff from the operations teams to ensure:		
	A) That stability is prioritised over creativity		
	B) Operational considerations are prioritised over stability		
	C) Operational considerations are taken into account		001
	D) The resultant designs of the systems will fit nicely into the business as usual		CO1
	environment a) A and B Only		
	b) B and C Only		
	c) C and D Only		
	d) D Only		
Q56.	Which benefits of adopting a DevOps approach could be included in a business case	1.5	
	to adopt a DevOps approach?		
	A) Improved deployment frequency, which can lead to faster time to market		
	B) Lower failure rate of new releases		CO3
	C) Shortened lead time between fixes		
	D) Faster mean time to recovery in the event of a new release crashing or otherwise		
	disabling the current system		
	a) A and C		

	b) A,B and C		
	c) A, B and C but not D		
	d) all are correct		
Q57.	How do you check the state of your local git repository since your last commit?	1.5	
	a) git diff		
	b) git check		CO1
	c) git status		
	d) git commit		
Q58.	Now, imagine that you have a local repository, but other team members have pushed	1.5	
	changes into the remote repository. What best suitable Git operation would you use		
	to download those changes into your working copy?		
	a) Clone		CO2
	b) Pull		
	c) Download		
	d) None		
Q59.	The Git clone command does which of the following?	1.5	
	a) Creates a working directory		
	b) Makes a local copy of the repository		CO2
	c) Commits a new branch		
	d) a and b		
Q60.	True or False? In Git, if you want to make your local repository reflect changes that		
	have been made in a remote (tracked) repository, you should run the pull command.	1.5	CO3
	a) True	1.5	COS
	b) Flase		