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| Name: |  UPES <small>UNIVERSITY WITH A PURPOSE</small> |
| Enrolment No: | |

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

Online End Semester Examination, May 2021

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| Course: Enterprise Mobile Application Management | Semester: VI |
| Program: B.Tech (Hons.) Computer Science and Engineering (Mobile Computing) | Time 03 hrs. |
| Course Code: CSMC4001 | Max. Marks: 100 |

SECTION A

- 1. Each Question will carry 5 Marks**
- 2. Instruction: Complete the statement / Select the correct answer(s)**

| S. No. | Question | CO |
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| Q 1 | The Mobile Foundation package includes IBM WebSphere Cast Iron and _____ a) IBM Endpoint Manager for Mobile Devices b) IBM Tealeaf c) IBM MobileFirst Platform d) IBM Worklight Platform | CO1 |
| Q2 | _____ is a process where a certificate is issued by MobileFirst Server for a specific device. | CO2 |
| Q3 | An _____ is a server-side entity that is responsible for collecting the credentials from the client application. | CO2 |
| Q4 | MobileFirst apps use the MobileFirst API to access _____ and _____ | CO3 |
| Q5 | The application-descriptor.xml file contains all the application-specific information and settings. These includes a) Worklight Settings b) Push Notifications c) Security d) All the above | CO4 |
| Q6 | MobileFirst client SDKs can capture crashes on Android and iOS, and uncaught exceptions in cross-platform and web applications. a) Crash Capture b) Custom Analytics c) Custom Charts d) App analytics | CO5 |

SECTION B

- 1. Each question will carry 10 marks**
2. Instruction: Write short / brief notes

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| Q 7 | Which all features provided by IBM Worklight and MobileFirst Platform are used for design, develop and deploy any Native or Hybrid Enterprise level Mobile App? Explain the life cycle of body fitness related mobile app with the help of diagrams. | CO1 |
| Q 8 | What is the role of encrypted cache in storage mechanism of mobile app; how it is associated with, various adapters used towards functioning of mobile app for a restaurant? Explain with the help of diagrams and suitable adapters used in the process mobile app update. | CO2 |
| Q 9 | Describe all the authentication realms used with authenticators towards all security tests while designing a mobile app for “COVID Vaccination” campaign in India, explain with the help of suitable diagrams. | CO3 |
| Q 10 | What is the role of Operational analytics along with subscription management for a wholesale supermarket and usage of push notification for the customers through IBM Worklight or MobileFirst platform? (Explain with the help of necessary software engineering diagrams) | CO4 |
| Q 11 | How does direct update is beneficial along with its versioning and restrictions in any enterprise mobile app especially designed for the marketing campaigns for the products of the online medical facility like pharmacy, testing lab, doctor’s clinic or even a hospital? | CO5 |

Section C

- 1. Each Question carries 20 Marks.**
2. Instruction: Write long answer.

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| Q12 | <p>Describe all the steps mapped towards Performance and Operational analytics of the mobile app developed for any online event management company. Explain the steps used in data processing towards BIRT reports for mobile analytics towards unique devices used during the event? (Explain all the necessary aspects using diagrams)</p> <p style="text-align: center;">OR</p> <p>Describe all the necessary steps towards designing a hybrid MobileFirst Application project structure including UI, Business Logic while identifying various functional units of the chain of Gym and Yoga centres, folder structure for Android and Apple, application testing and preview towards managing them using your Enterprise level Mobile App. (Explain all the necessary aspects using diagrams).</p> | CO5 |
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