



**UNIVERSITY OF PETROLEUM & ENERGY STUDIES
DEHRADUN**

End Semester Examination-May 2017

Program/course: MBA (UID)

Semester – II

Subject: Urban Infrastructure Management and Regulations

Max. Marks : 100

Code : MDSI833

Duration : 3 Hrs

No. of page/s:

Section A – Multiple Choice Questions, 1 marks each

Q1. The percent of population conservatively classified as urban in India in 2015 is:

- a. 25%
- b. 30%
- c. 35%
- d. 40%

Q2. Mutually reinforcing pattern of urbanization and economic growth in China has been due to:

- a. Investment
- b. Interest Rates
- c. Population
- d. Mass migration

Q3. Hukou is a tool used in China to:

- a. Limit Investments
- b. Limit Exports
- c. Control Interest Rates
- d. Control Mass Migration

Q4. In which country can one say that urbanization and growth are not related:

- a. Brazil
- b. China
- c. Japan
- d. UK

Q5. The fastest growth rate of the Indian Economy in the year 2006-07 was:

- a. 9%
- b. 9.7%
- c. 9.9%
- d. 9.4%

Q6. Private Investment to GDP ratio in the year 2008-09 in India was:

- a. 23.9%
- b. 25.9%
- c. 24.9%
- d. 22.9%

Q7. Which of the following sectors contributes to the maximum share in Indian GDP:

- a. Construction
- b. Services
- c. Industry
- d. Agriculture

Q8-14. Critically examine the following concepts with examples:

Q8. Structural transformation

Q9. FDI

Q10. FPI

Q11. Smart City

Q12. Types of Monorail

Q13. Hyperloop Transportation

Q14. Slum

Q15. The total budget allocation for JNNURM program was to the tune of:

- a. 40,000 crore
- b. 50,000 crore
- c. 60,000 crore
- d. 30,000 crore

Q16. Which one of the following projects was not sanctioned under JNNURM for Odisha:

- a. IT Development
- b. City Bus Service
- c. Integrated sewer system
- d. Conservation of Bindusagar

Q17. Percentage of cities residing in the cities in India in the year 2030 will be nearly:

- a. 30%
- b. 50%
- c. 45%
- d. 40%

Q18. The outlay for the smart city mission is roughly:

- a. 45,000 crore over four years
- b. 50,000 crore over five years
- c. 48,000 crore over five years
- d. 48,000 crore over four years

Q19. The fund requirement to build smart cities over the next 20 years will be:

- a. 8 lac crore
- b. 7 lac crore
- c. 6 lac crore
- d. 5 lac crore

Q20. The first monorail came up in:

- a. 1820 in Russia

- b. 1820 in Germany
- c. 1840 in Poland
- d. 1840 in Germany

Section B Short Answer Questions, 5marks each

- Q1. Explain the concept of urban agglomeration through examples?
- Q2. Outline the various facets of monorail versus metro rail?
- Q3. Define the term social capital and its role in urbanization?
- Q4. Explain the various criteria, which can be employed for funding green field versus brownfield urban projects?

Section C Descriptive questions, 10 marks each

- Q1. Discuss and contrast the various facets of urbanization and urbanism. Explain the idea of Rurban. How does one measure the level and the rate of urbanization?
- Q2. Explain the importance and benefits of GIS in urban planning?
- Q3. Discuss the concept of slum as per the UN and as per the Census 2011. Explain the characteristics of slums and the major causes of slums?

Section D Analytical Case Study, 15 marks each

- Q1. Critically examine the benefits of roof top Solar. Outline the various features of the SECI's grid connected rooftop scheme and its implementation. Discuss in detail all the aspects of the Solar Rooftop potential and the related initiatives of the Indian Railways in this regard?
- Q2. It is estimated that mammoth funding would be needed to execute the ambitious smart city project. The key determinant of the success of the project would be the securing of adequate finance at the appropriate time. Outline the strategy being adopted to fund the smart city projects? Explain in the detail the following methods for financing:
 - a. Viability Gap Funding
 - b. National Investment and Infrastructure Fund
 - c. PMDO
 - d. PPP Methods
 - e. Infrastructure Debt Finds
 - f. Municipal Bonds
 - g. Land Monetization and User Charges

