

JK LAKSHMIPAT UNIVERSITY, JAIPUR

INSTITUTE OF ENGINEERING AND TECHNOLOGY

End Term Examination (Regular/Backlog), Nov 2017

B. Tech Engineering, Semester VII

Roll No.....

COURSE CODE: CE 705 Infrastructure Planning and
Finance Management

Time: 3 hours

Max. Marks: 100

Instructions to students:

1. Do not write anything other than your roll number on question paper.
 2. Assume suitable data wherever required and mention it clearly.
 3. Writing appropriate units, nomenclature, and drawing neat sketches/schematics/ flow chart wherever, required are an integral part of the answer.
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Q.1A Objective type multiple choice questions (10 questions @ 1 mark) 10

- i. is not developed after independence in India (a) Surat (b) Chandigarh (c) Gandhinagar (d) Naya Raipur
- ii. of world population lives in India. (a) 25 % (b) 5 % (c) 18 % (d) 10 %
- iii. Toll tax is a type of Tax rather than fee for service. (a) True (b) False
- iv. Community center is one of the..... type of infrastructure. (a) Physical (b) Social (c) Environmental (d) None (b) (c) (d)
- v. As per the URDPFI guidelines 2016 what is the population for class I cities (a) above 1000000 (b) above 100000 (c) 50000 to 100000 (d) 20000 to 50000
- vi. Since last few years inflation rate in India is in the range of 6-8%. (a) True (b) False
- vii. Time value of money facilitates comparison of cash flow occurring at different time periods by
 - (a) Compounding all cash flows to a common point of time
 - (b) discounting all cash flows to a common point of time
 - (c) using either (a) or (b)
 - (d) Neither (a) nor (b)
- viii. Major Hydro Electric projects of India are funded by (a) State Government (b) Central Government (c) World Bank (d) Private companies
- ix. If annual effective rate of interest is 10.25% per annum and nominal rate of return is 10 % what is the frequency of compounding (a) 1 (b) 3 (c) 2 (d) None of the above
- x. Finance function involves
 - (a) Procurement of finance only
 - (b) Expenditure of funds only
 - (c) Safe custody of funds only
 - (d) Procurement and effective utilization of funds

Q.2 Short answer type questions (4 questions @ 2.5 marks) 10

- i. What is the role of central, state and private companies in electricity production?

- ii. What do you understand by a ring road?
 - iii. Why petroleum products are free from GST?
 - iv. Why governments invite private companies in development of Highways?
- Q.3A How the urbanization effect the requirement of Infrastructure in India? 05
- Q.3B What is the requirement of Ring roads in Major Urban areas? 05
- Q.4A What is the need of Urban Planning? 05
- Q.4B What is the role of Education development in overall development of country? 05
- Q.5A Calculate the future value of Rs. 20,000 invested now for a period of 5 years at a time preference rate of 8 %. 05
- Q.5B Mr. X purchased a machine in 1982 for Rs. 1,00,000 when the general price index was 180. He sold this machine in 1991 for Rs. 1,65,000 when the general index was 270. Calculate the profit or loss on the sale of the machine, keeping aside the price level changes. 05
- Q.6A What are the two methods of corporate finance? 05
- Q.6B What is the difference between future value and present value? (Explain with a proper example) 05
- OR
- Q.6B What is life cycle costing? 05
- Q.7A What are the various benefits of PPP mode? 05
- Q.7B An investor is 50 years age today. He will retire after the age of 60. In order to receive Rs. 2,00,000 annually for 10 years after retirement, how much amount should he invest at the time of retirement? Assume the required rate of return is 10%. 05
- OR
- Q.7B X has taken a 20 month home loan of Rs 10,00,000. The rate of interest is 8 %. What will the amount of monthly loan amortization? 05
- Q.8 Describe the role of financial management enhancing infrastructural planning and cost management. 10
- Q.9A Explain the usefulness of SCFP in increasing the efficiency of planning and construction management. 10
- Q.9B What do you understand by Sustainable development? 10
- OR
- Q.9B Describe in detail any 3 major Infrastructure project in your city or Jaipur. (For example Jaipur Metro, Ring Road, Ghat Ki Guni Tunnel in Jaipur) 10