

JK LAKSHMIPAT UNIVERSITY, JAIPUR

INSTITUTE OF ENGINEERING AND TECHNOLOGY

End Term Examination (Regular/Backlog), April-May 2018

B. Tech Civil Engineering, Semester IV

Roll No.....

CE408 Building Planning and Drawing

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.

- Q.1A Objective type multiple choice questions (10 questions @ 1 mark) 10
- i. Jail is a Type of building. (a) Residential (b) Institutional (c) Mercantile (d) Hazardous
 - ii. The climatic zone of Jaipur is (a) Mountain (b) Arid (c) Semi Arid (d) Tropical Wet
 - iii. If the depth of foundation is equal to or less than width of foundation it is known as shallow foundation. (a) True (b) False
 - iv. is the strongest bond in brick masonry (a) Flemish (b) English (c) Header (d) None of the above
 - v. Children of different sexes above should have separate bedroom. (a) 5 (b) 8 (c) 10 (d) 15
 - vi. Generally the sites of school buildings are away from any type of risk. The reason behind it is (a) because land is cheap for such sites (b) we love our Childs (c) In case of any accident they are not able to save themselves (d) None of the above
 - vii. It is more comfortable and advisable to construct Railway station and bus stand very near. (a) True (b) False
 - viii. The distance between screen and last row is in case of cinema building. (a) 20 (b) 23 (c) 40 (d) 50
 - ix. Inclined parking of buses is more preferable in comparison to straight parking. (a) True (b) False
 - x. In a cinema hall air conditioning is generally preferred. (a) Central (b) Individual
- Q.2 Short answer type questions (4 questions @ 2.5 marks) 10
- i. What is the difference between Hotel and Motel?
 - ii. What is the difference between roominess and grouping?
 - iii. What is the difference between English and Flemish bond?
 - iv. Mention the various purposes of multipurpose room in a school building.
- Q.3A What are the major factors on which the selection of site depends? 05

- Q.3B What are the advantages of building line and set backs? 05
- Q.4A Write any 6 basic requirements of sound masonry work. 05
- Q.4B What are the requirements a building must be satisfied? (Mention at least 7) 05
- Q.5A What are the basic requirements of a kitchen? 05
- Q.5B What are the factors on which the size and shape of class room depends? 05
- Q.6A What are the various types of banks and how this will affect the size of bank building? 05
- Q.6B What are the factors to be considered in the design of a bank building? 05
- OR
- Q.6B What are the four points on which the size of canteen and stalls depends at bus stand? 05
- Q.7A What are the advantages and disadvantages of shopping mall and traditional market shops? 05
- Q.7B What are the differences between shopping complex and shopping mall? What are the different types of spaces required in shopping mall or shopping complex? 05
- Q.8A What are the factors on which the site depends for following? 15
 (i) Bank (ii) Bus Station (iii) Cinema (iv) School (v) Hotel
 (Describe in detail)
- Q.9 Design a secondary school building for 1st -12th class (60 students in each class) in rural area. Calculate the dimension for the following units: Primary class rooms, science laboratories, store, art room, workshop, craft room, computer room, drawing hall, Library, Administrative area 15
- OR
- Q.9 A wayside bus station is to be constructed to serve 30,000 population in a small town with following requirements. 15
 Foyer, waiting hall 74 m², Canteen 74 m², clock room 9.5 m², stalls (3 number) 33.5 m², bus parking space 1400 m²; plinth area 380 m², Enquiry, booking and controller 12 m²
 Provide sanitary units as per norms of National Building code. Draw a layout plan of bus station to a suitable scale.