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R-15

Code: 5GA82

IV B.Tech. II Semester Regular Examinations March 2019

Human Resource Management

(Common to All Branches)

Max. Marks: 70

Time: 3 Hours

Answer *all five* units by choosing one question from each unit (5 x 14 = 70 Marks)

UNIT-I

1. What is meant by HRM? Discuss the functions of human Resource Management with relevant examples?

OR

2. Define Human Resource Management and discuss the difference between Personnel Management and HRM.

UNIT-II

3. How does the HR planning process facilitate the achievement of an organization's strategic objectives

OR

4. What is Job Analysis? Explain the job design methods in detail?

UNIT-III

5. What are various sources of applicants that organizations use when recruiting?

OR

6. What is selection? Explain different types of selection tests and process of selection

UNIT-IV

7. Discuss the different methods of training used by an organization for enhancing employee performance

OR

8. Explain the objectives, importance and factors influencing executive development

UNIT-V

9. Should effective Grievance Handling Procedure retains a potential employee in an organization – explain.

OR

10. Suppose you are a supervisor. Evaluate the different performance appraisal methods used in your organization?

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R-15

Code: 5G681

IV B.Tech. II Semester Regular Examinations March 2019
Design and Drawing of Irrigation Structures
 (Civil Engineering)

Max. Marks: 70

Time: 3 Hours

Answer any one question from the following (1 x 70 = 70 Marks)

1. Design and draw Glacis weir with the following hydraulic particulars. Hard soil is available for foundations below +8.00 level

Description	Upstream	Downstream
Full supply discharge	8 Cumec	8 Cumec
Bed width	6.25 m	6.25 m
Bed level	+10.00	+8.00
Full Supply depth	1.50 m	1.50 m
Full Supply level	+11.50	+9.50
Tank bund level	+12.5	+10.5

OR

2. Design and draw Surplus weir with the following hydraulic particulars.

Combined catchment area of group of tanks	40 km ²
Area of catchment intercepted by upper tanks	20 km ²
Full tank level	+12.00
Maximum water level	+12.75
General ground level at site	+11.00

The ground level below the proposed surplus slopes off till it reaches 10 m in about 8 m distance. The tank bund has a top width of 2 m at level +14.50 with 2:1 side slopes on either side. Foundations are of hard gravel at a level of +9.50 m near the site of work.

Code: 5G682

IV B.Tech. II Semester Regular Examinations March 2019

Estimation, Costing and Valuation

(Civil Engineering)

Max. Marks: 70

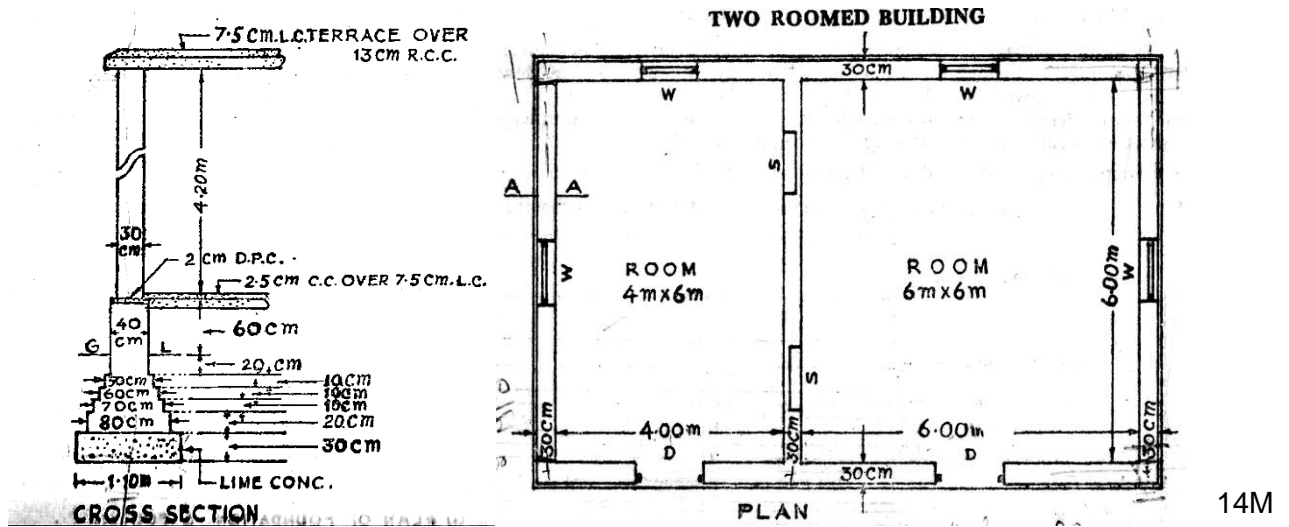
Time: 3 Hours

Answer all five units by choosing one question from each unit (5 x 14 = 70 Marks)

UNIT-I

1. Estimate the quantities of the following items of a two roomed building from the given plan and section (i) Earthwork in excavation in foundation, (ii) Cement concrete in foundation, (iii) 1st class brickwork in cement mortar 1: 6 in foundation and plinth, (iv) 2.5 cm c. c. damp proof course, and (v) 1st class brickwork in cement mortar in superstructure

Door=1.2x2.1 m², Window =1x1.5M², Shelves =1x1.5M², lintel over door window and selses 15 cm thick

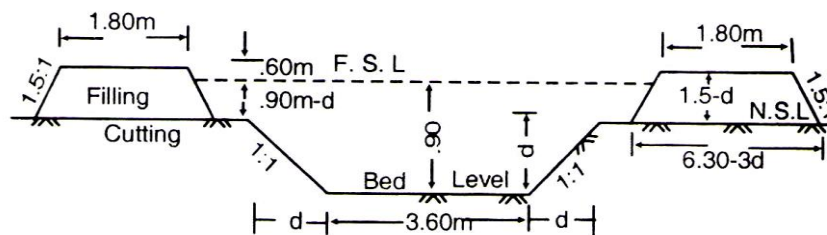


OR

2. a) What is the difference between preliminary estimate, detailed estimate supplementary estimate and revised estimate? Under what circumstances each one is prepared? 7M
- b) Prepare a preliminary estimate for civil works required for establishing a college building required a total carpet area of 6000 sq. m. This includes actual total area required for classroom, labs, store office etc. Suitable extra provision as 12 % of the carpet area is made for walls verandah, toilet, staircase etc. The plinth area rate is Rs 900/sq.m Suitable extra provision as 8% of building cost for water supply,10% for electric fittings,6% for other services,1.5% for special architectural treatment, of the building cost is also to be calculated. 7M

UNIT-II

3. Find out the Economical Depth of a channel from the following data.
- | | |
|-----------------------------------|----------------------------|
| Bed Width=3.60m | Full Supply Level=0.90m |
| Height of bund above F.S.L.=0.60m | Side slop of filling=1.5:1 |
| Side slop of cutting=1:1 | Ton Width of bank=1.80m |



OR

4. An Approach road is to be constructed in cutting as well as filling. The natural surface levels are as below

R.D.in metres	0	30	60	90	120	150	180
Levels	100.5	100.00	99.2	100.50	101.00	100.5	101.00

If the formation level at RD 0 is 101.00 work out the volume of cutting and filling in cubic metres for the formation width of 10m. the side slopes are 1 vertical and 2 horizontals in filling and 1 vertical and 1 horizontal in cutting. The formation line fall is 1 in 60. The original surface is level in the Transverse direction.

14M

UNIT-III

5. Find out the cost of 10 square metre convert 25 mm thick cement concrete topping 1:2:4 over existing floor

labour for 10 square metre- mason=1.5no Mazdoor=2no bhisti=1no

labour rates- Mason @ 400 rupees per day, Mazdoor @ 300 rupees per day and bhisti @ 300 rupees per day

material rates- Cement @ Rs. 320 bag, Sand Rs.800 rupees cubic metre & coarse aggregate Rs.900 per cubic metre.

14M

OR

6. Find out the rate analysis for 70sqm of cement and plaster 15mm thick, the ratio of cement & sand is 1:4 the labor for 100 sqm plaster is

Mason =10 no, mazdoor=10 no, Bhisti =2no

Material and labor rate as provide in question 5

14M

UNIT-IV

7. a) Define contract and contractor. Explain briefly the qualifications of a contractor for being registered for execution of public work. 7M
- b) Explain different type of contracts. Describe briefly in which condition each one is used. 7M

OR

8. Explain briefly

- i. Earnest Money
- ii. Retention Money
- iii. Security Deposit
- iv. Arbitration

14M

UNIT-V

9. A building stands on a freehold plot of land measures 600 sq m yields a gross rent of Rs 1000 per month. The price of land is Rs 75/m². The estimated future life of the building is 12 years, but is expected to extend by another 16 years, if structural and other repair costing Rs 16000 are immediately carried out. The total amount of outgoing is 25 % of the gross rent. The owner requires 7% return on land and 11 % return on building with 6% redemption on capital. Find out whether it will be advisable to spend the above cost of repair from investment point of view. 14M

OR

10. a) A First-class building is situated on the main road of the city, having plot area 600 square metre. The covered area is 50% of the plot. All immunity such as water supply, sanitary and electricity are provided. The age of building is 20 years. The assumed unit plinth area rate at the time of construction was rupees 250 per square metre. Assuming life of building as 100 years and cost of the land as 70 rupees per square metre find out total value of the property. 10M
- b) What do you understand by the standard range and how it is calculated? 4M
