

FACULTY OF ENGINEERING

B.E. (Civil) V - Semester (CBCS) (Backlog) Examination, March / April 2022

Subject: WATER RESOURCE ENGINEERING - I

Time: 3 Hours

Max. Marks: 70

(Missing data, if any, may be suitably assumed)

PART – A

Note: Answer all questions.

(10 x 2 = 20 Marks)

1. What are single and multipurpose projects?
2. When overturning of dam takes place?
3. State few functions of Galleries in Dam.
4. Define Phreatic line.
5. Enumerate different types of earth dams.
6. List various forces acting on Gravity dam.
7. State functions of filters in Earth dams.
8. What do you understand by Tank irrigation?
9. State the functions of Spillways.
10. Mention causes for the failure of tank weirs.

PART – B

Note: Answer any five questions.

(5 x 10 = 50 Marks)

11. (a) Describe in detail importance of fixation of different levels of reservoirs.
(b) Discuss principles of planning and design to different types of water retention and regulatory systems.
12. (a) Discuss in detail about the causes of failure of a Gravity dam.
(b) What are forces acting on dams? Discuss in detail about uplift pressure.
13. (a) Explain the practical profiles of a gravity dam.
(b) Describe in brief criteria for the safe design of an earth dam.
14. (a) Explain various types of galleries in gravity dams.
(b) Give general specifications for the construction of tank weirs.
15. (a) Enumerate different types of spillways. Explain any one in detail.
(b) Describe in detail the functions of spillways.
16. Discuss in detail the design of different types of energy dissipation arrangements as per USBR guidelines.
17. Write short notes on any **TWO** of the following:
 - (a) Groundwater rights.
 - (b) Homogeneous sections.
 - (c) Stilling basin appurtenances.

FACULTY OF ENGINEERING

B. E. (EEE/EIE/ECE/MECH/PROD/AE/CSE/IT) V – Semester (CBCS) (Backlog)

Examination, March / April 2022

Subject: Gender Sensitization

Time: 3 hours

Max. Marks: 70

(Missing data, if any, may be suitably assumed)

PART – A

Note: Answer all questions.

(10 x 2 = 20 Marks)

1. Why is gender considered a social construction?
2. Which social issue is discussed in Gogu Shyamala's 'Radam'?
3. Write the full forms of CSR and OSR?
4. What do you mean by 'marriage squeeze'?
5. "My mother does not work. She is just a housewife". What mindset of people is reflected through the statement?
6. Which amendments to the Constitution of India provided reservations for women in the elected bodies of municipal corporations and gram panchayats?
7. What is the theme of 'Chupulu' written by Jayapradha?
8. When did Nirbhaya Act come into force?
9. What is the discrimination faced by women in the field of sports.
10. What is Chindu Bhagotam?

PART – B

Note: Answer any five questions.

(5 x 10 = 50 Marks)

- 11 (a) Which childhood experiences of Dr. B. R. Ambedkar are shared in the excerpt "A childhood Journey to Koregaon Becomes a Nightmare"?
- (b) What is the message given through the heartwarming story of Mary Kom and Onler?
- 12 (a) What does transgender mean and how are they treated in our society?
- (b) Describe the problem of gender discrimination in the field of sports with two relevant examples you studies.
- 13 (a) Write a note on the unrecognized work done by women.
- (b) Discuss how women have successfully made their presence felt in different areas with relevant examples.
- 14 (a) Write a note on the adverse impact of eve-teasing upon women. How is it punishable?
- (b) Sohaila Abdulali proves that 'silence is not the solution to sexual violence'. Comment on the statement.
- 15 (a) Briefly discuss the historical importance of Mahlaqa Bai Chanda.
- (b) Write a note on the significant contributions of T. N. Sadalakshmi.
- 16 (a) A woman is responsible in preserving the institution of marriage. Express your opinion in this regard.
- (b) Why is the relationship between Alok Dixit and Laxmi Agarwal unique?
- 17 (a) Discuss the reasons behind the declining sex ratio in India.
- (b) Narrate the struggle of Bhanwari Devi, an epitome of courage and conviction.