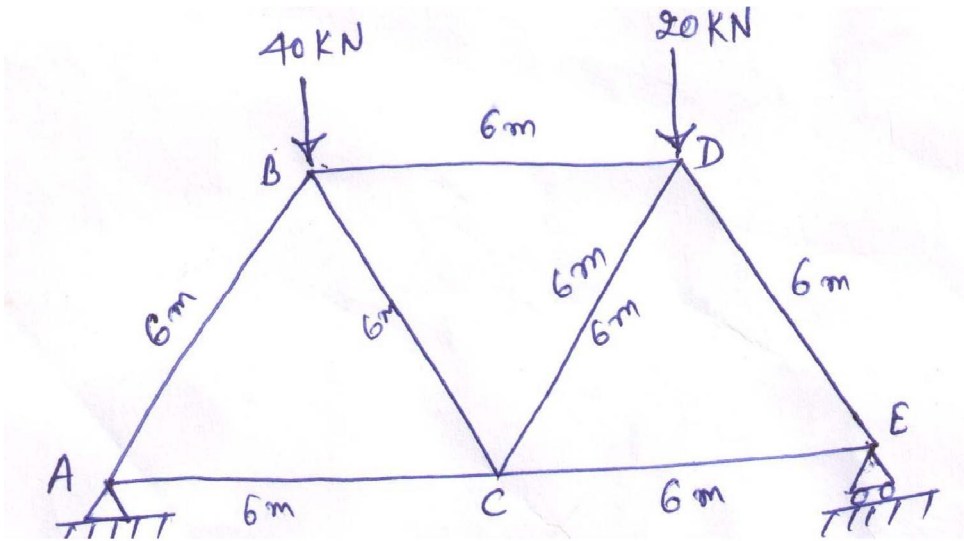


SUBJECT – ANALYSIS OF STRUCTUR (CET 401)

F.M.: - 20 MARKS



1.) THE VALUE OF VERTICAL REACTION AT A IS.....

- (A) 25 KN                      (B) 35 KN                      (C) 40 KN                      (D) 20 KN

2.) THE VALUE OF VERTICAL REACTION AT E IS.....

- (A) 25 KN                      (B) 35 KN                      (C) 40 KN                      (D) 20 KN

3.) WHICH EQUILIBRIUM CONDITION WILL BE APPLICABLE FOR FINDING THE VALUE OF VERTICAL REACTION AT A?

- (A)  $\sum M_A = 0$                       (B)  $\sum M_E = 0$                       (C)  $\sum H = 0$                       (D)  $\sum V = 0$

4.) WHICH EQUILIBRIUM CONDITION WILL BE APPLICABLE FOR FINDING THE VALUE OF VERTICAL REACTION AT E?

- (A)  $\sum M_A = 0$                       (B)  $\sum M_E = 0$                       (C)  $\sum H = 0$                       (D)  $\sum V = 0$

5.)  $\angle BCD =$ .....

- (A) 30                      (B) 45                      (C) 60                      (D) NONE OF THESE

6.)  $L_{BAC} = \dots\dots\dots$

- (A) 30                                      (B) 45                                      (C) 60                                      (D) NONE OF THESE

7.)  $L_{DEC} = \dots\dots\dots$

- (A) 30                                      (B) 45                                      (C) 60                                      (D) NONE OF THESE

8.) THE PERPENDICULAR DISTANCE BETWEEN POINT OF APPLICATION OF **LOAD 20 KN** & SUPPORT POINT **E** IS....

- (A) 3 m                                      (B) 6 m                                      (C) 9 m                                      (D) NONE OF THESE

9.) THE PERPENDICULAR DISTANCE BETWEEN POINT OF APPLICATION OF **LOAD 20 KN** & SUPPORT POINT **A** IS....

- (A) 3 m                                      (B) 6 m                                      (C) 9 m                                      (D) NONE OF THESE

10.) THE VALUE OF FORCES DEVELOPED IN MEMBER **AB** IS

- (A) 28.87 KN (T)                                      (B) 28.87 KN (C)                                      (C) 14.44 KN (T)                                      (D) 14.44 KN (C)

11.) THE VALUE OF FORCES DEVELOPED IN MEMBER **AC** IS

- (A) 28.87 KN (T)                                      (B) 28.87 KN (C)                                      (C) 14.44 KN (T)                                      (D) 14.44 KN (C)

12.) THE VALUE OF FORCES DEVELOPED IN MEMBER **BC** IS

- (A) 28.87 KN (T)                                      (B) 14.44 KN (T)                                      (C) 17.32 KN (T)                                      (D) 17.32 KN (C)

13.) THE VALUE OF FORCES DEVELOPED IN MEMBER **BD** IS

- (A) 17.32 KN (T)                                      (B) 17.32 KN (C)                                      (C) 5.78 KN (T)                                      (D) 5.78 KN (C)

14.) THE VALUE OF FORCES DEVELOPED IN MEMBER **CE** IS

- (A) 2.88 KN (T)                                      (B) 2.88KN (C)                                      (C) 17.3KN (T)                                      (D) 17.3 KN (C)

15.) THE VALUE OF FORCES DEVELOPED IN MEMBER **CD** IS

- (A) 5.78 KN (T)                                      (B) 5.78 KN (C)                                      (C) 17.3 KN (T)                                      (D) 17.3 KN (C)

16.) THE VALUE OF FORCES DEVELOPED IN MEMBER DE IS

- (A) 2.88 KN (T)      (B) 2.88 KN (C)      (C) 40.41 KN (T)      (D) 40.41 KN (C)

17.) THE STRUCTURE SHOWN IN FIGURE IS.....

- (A) FRAME      (B) TRUSS      (C) BEAM      (D) NONE OF THESE

18.) THE VALUE OF HORIZONTAL REACTION AT A IS.....

- (A) 40 KN      (B) 35 KN      (C) 0 KN      (D) NONE OF THESE

19.) IF A HORIZONTAL FORCE OF 50 KN IS APPLIED AT POINT D THEN HOW THE VALUE OF VERTICAL REACTION AT A WILL CHANGE?

- (A) INCREASE      (B) DECREASE      (C) NO CHANGE      (D) NONE OF THESE

20.)  $R_A + R_E = 40+20$  REPRESENTS WHICH EQUILIBRIUM EQUATION?

- (A)  $\Sigma H = 0$       (B)  $\Sigma V = 0$       (C)  $\Sigma M = 0$       (D) NONE OF THESE