

- a) 54°C                      b) 450°C  
c) 327°C                      d) 600°C

49. The function to supply correct air-fuel mixture in a petrol engine is performed by

- a) Carburettor    b) Fuel pump  
c) Suction valved  
d) Injector

50. In a 4-stroke cycle diesel engine the inlet valve is opened 10° before T.D.C. and closed 30° after B.D.C. The angle during which the crank shaft has rotated when the inlet the valve is kept open is given by

- a) 220°    b) 40°    c) 180°    d) 200°

### ANSWERS

- |       |       |       |
|-------|-------|-------|
| 1. c  | 2. b  | 3. b  |
| 4. b  | 5. b  | 6. b  |
| 7. a  | 8. d  | 9. d  |
| 10. a | 11. b | 12. a |
| 13. c | 14. d | 15. a |
| 16. a | 17. a | 18. b |
| 19. c | 20. d | 21. d |
| 22. d | 23. c | 24. d |
| 25. a | 26. a | 27. c |
| 28. a | 29. a | 30. a |
| 31. d | 32. a | 33. a |
| 34. a | 35. a | 36. a |
| 37. a | 38. a | 39. d |
| 40. a | 41. a | 42. b |
| 43. c | 44. a | 45. d |
| 46. c | 47. c | 48. c |
| 49. a | 50. a |       |

### SOLUTIONS

1. c P, pitch = 40 m, l = 1 m, p = 70 N  
For ideal machine of screw Jack  
M.A = V.R  
 $M.A = \frac{2\pi l}{p} = \frac{2 \times \pi \times 1}{40} = 0.157$   
 $\frac{W}{P} = 0.157$   
 $w = p \times 0.157 = 70 \times 0.157 = 1100N$

3. b  $\tan \phi = \frac{F}{R}$

$F = R$

$\phi = 45^\circ$

4. b  $T_1 = 600 \text{ N}, T_2 = 300 \text{ N}, V = 30 \text{ m/Sec}$

$p = (T_1 - T_2) V \text{ KN}$

$P = (600 - 300) 30$

$= 300 \times 30 = 9000 \text{ W} = 9 \text{ KW}$

6. b  $N_1 = 1500 \text{ rpm}; N_2 = 750 \text{ 4pm}$

$d_1 = ?; d_2 = 50 \text{ cm}$

We know that  $\frac{N_1}{N_2} = \frac{d_1}{d_2}$

$\Rightarrow d_1 = \frac{N_2 \times d_2}{N_1} = \frac{750 \times 50}{1500} = 25 \text{ cm}$

7. a  $w = 5 \text{ cm}, t = 2 \text{ cm } \rho = 1 \text{ gm/cc},$

$V = 12 \text{ m}^3/\text{sec}$

$m = \rho \times \text{Area}$

$= \frac{1 \times 5 \times 2 \times 10^{-3}}{10^{-2}} = 1 \text{ kg/m}$

$\therefore T_c = MV^2 = 1 \times (12)^2 = 144 \text{ N}$

11. a  $N = n \text{ cycles C.I. Petrol engine}$

$N = 3000 \text{ rpm}$

In 4 stroke cycle petrol engine is 3000 rpm

The time taken for 4 stroke is equal to the two revolution of the crank.

$\frac{2}{3000} \times 60 = 0.04 \text{ seconds}$

$= 40 \text{ milli seconds}$

13. c S.F.C. = 0.2 kg/IHP/Hr

C.V. = 10,000 kilo cal/kg,

$J = 426.7 \text{ KJ/kg}$

1 th  $\eta = ?$

1th  $\eta = \frac{\text{I.H.P.} \times 4500}{W_f \times CV \times J} \times 100$

Where  $W_f$  = fuel consumption/minit

$= \frac{0.2}{60}$

1th  $\eta = \frac{1 \times 4500}{0.2/60 \times 10000 \times 426.7} \times 100$   
 $= 31.63\%$

15. a Mechanical efficiency ( $\eta_m$ ) =  $\frac{\text{BHP}}{\text{IHP}}$

$= \frac{9}{12} = 0.75 = 75\%$



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