(ii) A job production unit has four jobs A, B, C, D which can be manufactured on each of the four machines P, Q, R, S.
The processing cost of each job for each machine is given below:

Machines	Processing cost (in ₹)			
	P	Q	R	S
A	31	25	33	29
В	25	24	23	21
C	19	21	23	24
D	38	36	34	40

Determine the assignment schedule to achieve minimum processing cost. Also state the minimum total cost. (4)

Q. 4. (A) Attempt any ONE of the following:

- (i) From past experience it is found that 1% screws of the total production are defective. A lot of 10 screws is selected at random. Find the probability that there is only one defective screw.
- (ii) If a fair die is rolled 5 times, what is the probability that two of the rolls will show '1'?
 (2)

(B) Attempt any ONE of the following:

- (i) If X follows Poisson distribution with parameter m = 5, then find P(X = 5).
 (Use e⁻⁵ = 0.0067)
- (ii) A random variable 'X' follows Poisson distribution such that $P(X=2)=\frac{3}{4}P(X=1)$. Find P(X=0). (Use $e^{-1.5}=0.2231$)

Jobs

[8]

(2)

(2)

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