Mame: Adorsh & Savata

(p, K) = (2,3)

Alumbed of nodes =

x 2) Number of warelanger Mr. pn. 3 x 2 200 6u + -

C) 24 and 48 Non-linear clashe scaling process

D B) Mon-linear variations of the refractive index in silver files Point to Point Links

(0) swithed automateally to an alternate of stonday bathe following failure of degradation of the link egrant the traffic flowing along a cellain pok can be

A) Effective Asia D) Effective Longton B) 1/8

A) Tone Dopod multi-bound

0 10) Stock Stilling The Groves of smith carbon at star formed / highest strongth 90 1 + Npn/ Npnat Mpn. Tayer) In that I had to

Mostrille

The all Distinger:

FMI16ECOO2

1480 nm - Higher energy level of metastable bond 1600 nm -Lower mound energy level of metastable bound Energy level near to gooms state

Configuration of EDFA:

- Co directional EDFA
- (h) Counter disectional EDFA
- 3) Dual discessord EDFA

13 population investor

Stimulated Roman Scattering

Stroke fledon which has energy of ho, , after interction dicate (hv) lossing its energy; This results in loss of signal foures. The worklingth of incidenting photon is called frump work length. The resultant photon has similar signal power of corjugate sub-ethannel of similar wavelingth which depletes its signal power the absolption of energy by fibel makeral will sesult in change Show inelabore photon Signals with molecular and abonde conforms of fiber.
The incidenting photon on fiber molecule is called 1, 12 by An 14>13>2>1

Incident Stynol

power

Signal power AlaMMM

Rejulfont Shoton

1530 nn -Higher energy level of metastable bond

- Ley

15) Working of UPSR and BLSR

HALL 16 ECOCOZ

Unidizerional Path Switching Ring (UPSR):

seach all nodes. Upon failuse it takes The signals propagate in primary path pamon pake only in one discetton (Model-Node2-3-4) bookehon path [Node (1-3): Model -5-6-Medes] signal will take loop in order to consists of two fibes and protection ball manch Moder

X postchon palmoray factor

Node 3

Bildrachonal Line Switching Ring (BUSE)

The signal can bavelle in both dischood

mole bandwick due to mole cobbe It comes with availabily. The node can have lecter transmission of

Simultaereus toansfel of signal Upon failure des signal

fail, it it take loop coons bath to such charges bake boom primary to probechen where facilitats transfer If the connection between two node

The

Mother 5,6 (11,12) 6119 delhallon Modes (M1/81) (15, jk)

16) Amplifies gain: Pout Pon gain in SOA is given by G= exp[[(g,-w)]] [7(2)8] dx3

1480 nm - Higher energy level of metastat u fo proof heavy remode proved - mu 0851

(gode: Pro (Pro) + Lapped Ap + (5= 1 + Pompset In (50) Proposition (9) The gam ber inexemental langthe: dP = g (2) Ps(2) d 2 Bedr: (Pa) + I AP int of of Sensite 4N) 16EC002

17) Powers Convession Efficiency (PCE) and gain in EDFA The outfut bases much be less keen the unput power the

The Power conversion ston is measured by different in stynal forces with furt forth forces three (Point & Pohn) Roue < Psin + 1/2 Ppin

PCE: Pout Sim = Pout < ()

The Qualum conversion Efficient (See - is PCE The goin & given as saken of output wit input stond power

Landel