Paper / Subject Code: 89380 / Institute Optional Course-2: Project Management

ECS-8-CBC'C'
17/5/23

Time: 3-hour

Marks: 80

N.B.: (1) Question No 1 is Compulsory.

- (2) Attempt any three questions out of the remaining five.
- (3) All questions carry equal marks.
- (4) Assume suitable data, if required and state it clearly.
- (5) Notations carry usual meaning.

Ol. Answer the following (Any FOUR.)

[20M]

- a) What are the contents of project charter? who prepares and authorizes the project charter? Ch. 5, Slide No.
- b) Compare the top-down budgeting and bottom-up budgeting. ch. 3, Slide No. 24
- c) What is Goldratt's critical chain method? ch. 4, Slide No. 228 23
- d) Explain the significance of IRR method in project selection. Ch. 2, Slick No. 49 & 50
- e) Briefly describe the purchasing cycle. (same as procurement) Ch. 5, Stide No. 52
- f) Explain the risk breakdown structure. Ch. 4, Slide No. 33
- Q2. (a) A consulting project has an actual cost of Rs. 35000, Scheduled cost Rs. 27000, and [5M] Refer completed work is Rs. 31000. Find the Scheduled and Cost Variance. Also find SPI and CPI. Attachment
 - (b) What is a contract? Explain different types of contracts in brief. Ch. 5 S lide No[5M] 57 to 60
 - (c) Consider a project having following cash flow stream. The cost of capital (r) for the firm is 10%. Calculate NPV of project and decide whether to accept or reject the project. [10M]

Year	0	1	2	3	4	5
CASH Flow in	10,00,000	2,00,000	2,00,000	3,00,000	3.00.000	3,50,000

Refer Attachment

Q3. (2) What is project life cycle? how does cost of change, risk and influence of stakeholders are

affected with Project time during the life cycle of project? -> Cho 1
Slide No. 16 to 20

Q3. (b) Explain probability and impact matrix. What are the risk response strategies foe negative risks

(threats) and positive risks(opportunities).

[10M]

Ch.4

Ch. 4

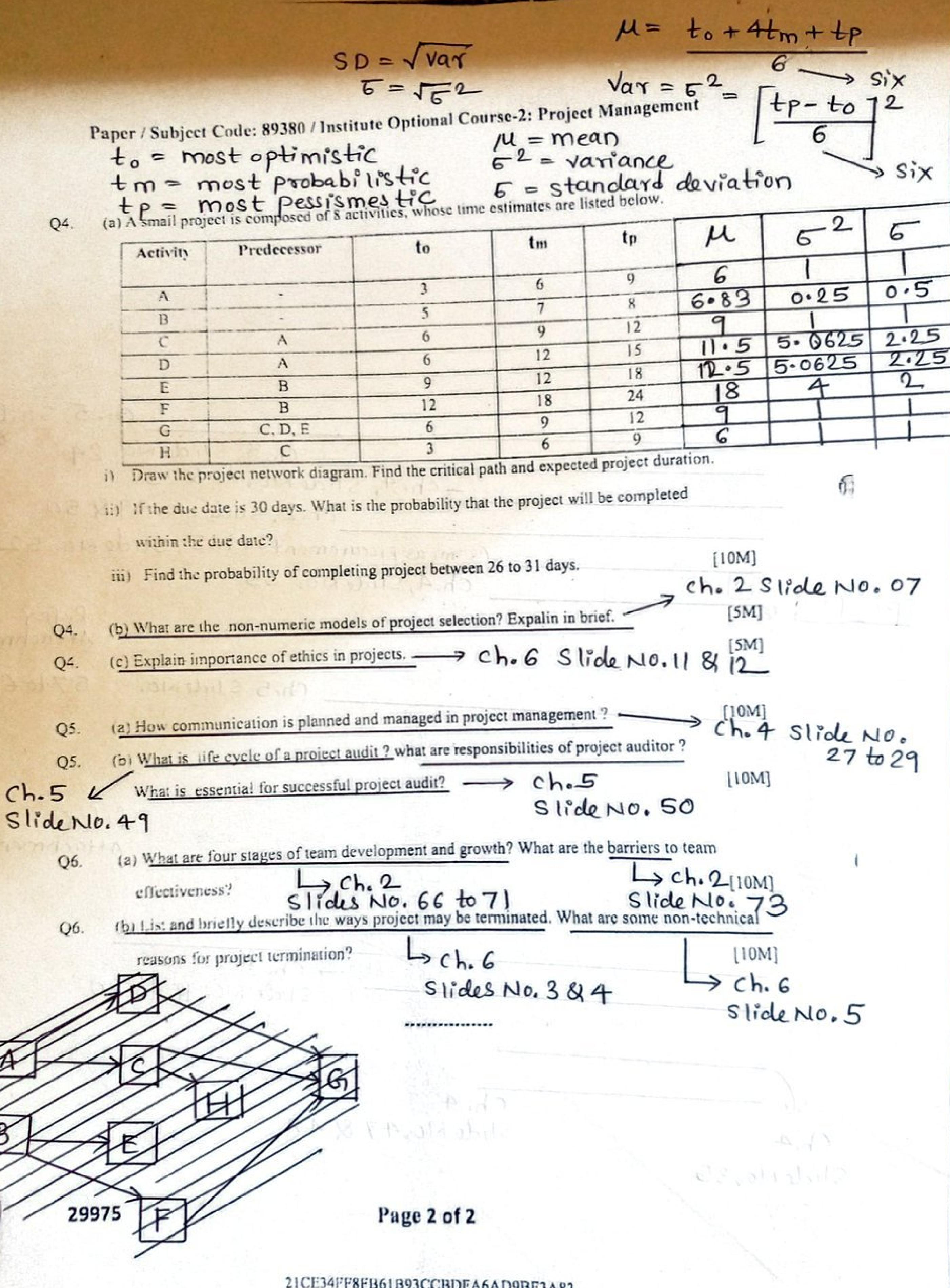
Slide NO.47 & 4-8

Slide No. 35

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Actual (ost (A() = 735,000/-Scheduled cost (SC) = 7 27,000/completed work (EV) = 7.31,000/also called earned value

positive su means project is ahead of schedule cost variance (cv) = EV - AC = 31,000 - 35000

Negative cv means project is over budget.

$$SPI = EV/PV = 31,000/27,000$$

 $SPI = 1.148$

$$CPI = EV/AC = 31,000/35,000$$

$$CPI = 0.8857$$

Kor r = 0.1 (10°/0) Ao = 10,00,000 F2 = 2,00,000 F1 = 2,00,000 F4 = 3,00,000 F3 = 3,00,000 F5 = 3, 50,000

$$NPV = -A_0 + \sum_{t=1}^{n} \frac{F_t}{(1+r)^t}$$

Negative sign because of initial investment

$$NPV = -Ao + F1 + F2 + F3 + F4 + F5$$

$$(1+0.1)^{1} + (1+0.1)^{2} + (1+0.1)^{3} + (1+0.1)^{4} + (1+0.1)^{5}$$

$$NPV = -10,00,000 + 2,00,000 + 2,00,000 + 3,00,000 + 3,00,000 + (1.1)^{2}$$

$$(1.1)^{3} + ($$

Hence NPV = - 75271.63

3,50,000

AS NPV is negative the project should be rejected