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GIET MAIN CAMPUS AUTONOMOUS GUNUPUR – 765022

B. Tech Degree Examinations, May – 2021

(Eighth Semester)

BCSPE8021 / BITPE 8021 – SOFTWARE PROJECT MANAGEMENT

(C.S.E and I.T)

Time: 2 hrs

Maximum: 50 Marks

Answer ALL Questions**The figures in the right hand margin indicate marks.****PART – A: (Multiple Choice Questions)****(1 x 10 = 10 Marks)**

- Q.1. Answer ALL questions** [CO#] [PO#]
- a. _____ activity is undertaken immediately after feasibility study and before the requirement analysis and specification phase? CO1 PO2
 (i) Project Planning (ii) Project Monitoring
 (iii) Project Control (iv) Project Scheduling
- b. Once project planning is complete, project managers document their plan in CO1 PO2
 (i) SPMP document (ii) SRS document
 (iii) Detailed design document (iv) Excel sheet
- c. _____ serves as metrics for project size estimation. CO2 PO1
 (i) Lines of code (ii) Function point
 (iii) Number of persons (iv) Only (i) and (ii)
- d. The technique used to overcome drawback related to LOC is _____ CO2 PO2
 (i) Project Planning Sheet (ii) Function Point Metric
 (iii) COCOMO (iv) COCOMO2
- e. Which of the following is empirical estimation technique? CO2 PO3
 (i) expert judgement (ii) Delphi estimation (iii) COCOMO (iv) Critical path method
 (i) Only i, ii & iii (ii) Only i & ii
 (iii) Only i, iii & iv (iv) All of the above
- f. This deals with effectively tracking and controlling the configuration of a software product during its life cycle CO3 PO1
 (i) Software Configuration management (ii) Software Risk Monitoring
 (iii) Gantt chart (iv) COCOMO
- g. Which of the following is not Risk characteristic? CO3 PO2
 (i) Inherent in every project (ii) Neither intrinsically good nor bad
 (iii) Something to fear but not something to manage (iv) Probability of loss
- h. Effective software project management focuses on CO4 PO2
 (i) people, performance, payoff, product (ii) people, product, performance, process
 (iii) people, product, process, project (iv) people, process, payoff, product
- i. The primary purpose of configuration status reporting is to CO3 PO1
 (i) allow revision of project schedule and cost estimates by project managers (ii) evaluate the performance of software developers and organizations
 (iii) make sure that change information is communicated to (iv) none of the above

all affected parties

- j. Staff level estimation pattern is greatly influenced by CO4 PO2
- (i) Norden's work (ii) Putnam's work
- (iii) Both (iv) None of these

PART – B: (Short Answer Questions)

(2 x 5 = 10 Marks)

Q.2. Answer ALL questions

[CO#] [PO#]

- a. What are the characteristics that make software projects different from other projects? CO1 PO2
- b. Define Project Portfolio Management. CO1 PO1
- c. Distinguish between bottom-up and top-down estimate. CO2 PO2
- d. State three approaches to identify the activities that make up a project. CO3 PO2
- e. What are the factors to be considered in the Oldham-Hackman job characteristic model? CO4 PO2

PART – C: (Long Answer Questions)

(6 x 5 = 30 Marks)

Answer ANY FIVE questions

Marks [CO#] [PO#]

3. What are the activities involved by management? (6) CO1 PO1
4. Explain step-wise project planning with suitable flowchart. (6) CO1 PO1
5. Describe the phases of extreme programming. (6) CO2 PO2
6. Explain about COCOMO model. (6) CO2 PO1
7. Explain the method earned value analysis. (6) CO3 PO2
8. A small project consisting of eight activities has the following characteristics: (6) CO3 PO3

Activity	Description	Precedents	Optimistic (a)	Most likely (m)	Pessimistic (b)
A	Hardware Selection		5	6	8
B	Software Design		3	4	5
C	Install Hardware	A	2	3	3
D	Code & test software	B	3.5	4	5
E	File take-on	B	1	3	4
F	Write user manuals		8	10	15
G	User training	E, F	2	3	4
H	Install and test	C, D	2	2	2.5

Draw the PERT network for the project.

9. Discuss about different models of motivation. (6) CO4 PO2
10. Explain how new staff can be selected and inducted into a project. (6) CO4 PO2

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