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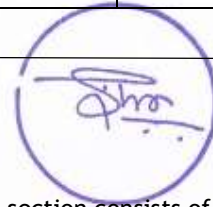
Branch: Signature of Invigilator:

Semester: IVth Date: 29/04/2022 (MORNING)

Subject with Code: PE208 PROJECT ENGINEERING

Marks Obtained	Section A (30)	Section B (20)	Total Marks (50)

INSTRUCTION TO CANDIDATE



1. The booklet (question paper cum answer sheet) consists of two sections. First section consists of MCQs of 30 marks. Candidates may mark the correct answer in the space provided / may also write answers in the answer sheet provided. The Second section of question paper consists of subjective questions of 20 marks. The candidates may write the answers for these questions in the answer sheets provided with the question booklet.
2. The booklet will be distributed to the candidates before 05 minutes of the examination. Candidates should write their roll no. in each page of the booklet.
3. Place the Student ID card, Registration Slip and No Dues Clearance (if applicable) on your desk. All the entries on the cover page must be filled at the specified space.
4. Carrying or using of mobile phone / any electronic gadgets (except regular scientific calculator)/chits are strictly prohibited inside the examination hall as it comes under the category of unfair means.
5. No candidate should be allowed to enter the examination hall later than 10 minutes after the commencement of examination. Candidates are not allowed to go out of the examination hall/room during the first 30 minutes and last 10 minutes of the examination.
6. Write on both side of the leaf and use pens with same ink.
7. The medium of examination is English. Answer book written in language other than English is liable to be rejected.
8. All attached sheets such as graph papers, drawing sheets etc. should be properly folded to the size of the answer book and tagged with the answer book by the candidate at least 05 minutes before the end of examination.
9. The door of examination hall will be closed 10 minutes before the end of examination. Do not leave the examination hall until the invigilators instruct you to do so.
10. Always maintain the highest level of integrity. Remember you are a BITian.
11. Candidates need to submit the question paper cum answer sheets before leaving the examination hall.

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(END SEMESTER EXAMINATION)**

CLASS: B.Tech
BRANCH: PRODUCTION ENGINEERING
SUBJECT: PROJECT ENGINEERING PE 208
TIME: 2 HOURS

SEMESTER : IV
SESSION : SP/22

FULL MARKS: 50

INSTRUCTIONS:

- 1. The total value of the questions is 50 marks.**
- 2. Section A (Objective type) is of 30 marks and Section B (Short Answer Type) is of 20 marks.**
- 3. The missing data, if any, may be assumed suitably.**
- 4. Before attempting the question paper, be sure that you have got the correct question paper.**

SECTION A

1. Scheduling helps in
 - A) planning for the project.
 - B) financial control of the project
 - C) preparing the estimate of for the project
 - D) carrying out the project in an orderly and effective manner

2. Project milestone have a duration of:
 - A) Depends on the type and nature of project
 - B) It is decided by the sponsor
 - C) The manager and team decides this duration
 - D) Zero because it is only a check point on the project

3. Demand forecasting is attribute of which of the following appraisal
 - A) Technical appraisal
 - B) Financial appraisal
 - C) Market appraisal
 - D) Economic appraisal

4. Break -even analysis can be used in
 - A) choosing the best product
 - B) selection among alternatives
 - C) choosing the critical method
 - D) selecting the best equipment

5. A project on software development and construction of a bridge are similar to each other in terms of:
 - A) Project life-cycle
 - B) Project management process groups Correct answer
 - C) Technology
 - D) Resources

6. A positive cost variance means project is

- A) over budget
- B) under budget
- C) equal to budget
- D) can't be predicted

7. The time beyond which the direct cost will not be reduced with the increase in time is

- A) Normal time
- B) Crash time
- C) Optimistic time
- D) Optimum time

8. Which of the following are examples of indirect costs?

- A) Salaries of corporate executives
- B) Salaries of full-time project staff
- C) Overhead costs
- D) Both A and C

9. Work breakdown structure helps in

- A) Identifying the activities
- B) Identifying the functional elements of a project and their interrelationship.
- C) Breaking the project into several elements
- D) Breaking the project into subsystem

10. Which one is an example of crashing?

- A) Starting a few activities simultaneously
- B) Adding more resources
- C) Reducing resources
- D) Increasing the duration of project

11. The term resource planning refers to:

- A) Labor
- B) Capital equipment
- C) Materials
- D) All of the above

12. The critical path of a project is normally identified using:

- A) Project requirement list
- B) Work breakdown structure
- C) Cost estimate
- D) Sequencing the activities

13. There is a clear cut system of command and control from senior management on the project. Which type of approach to execution is used here

- A) Top down approach
- B) Bottom up approach
- C) Participative approach
- D) Collaborative approach

14. Which is true regarding projects

- A) A project is a unique service undertaken to create a temporary product
- B) A project is a unique endeavour undertaken to create a temporary service
- C) A project is a temporary endeavour undertaken to create a unique product or service.
- D) A project is a temporary product undertaken to create a unique endeavour or service.

15. At what stage in the project life cycle the cost will be highest.

- A) Concept
- B) Development
- C) Implementation
- D) Closeout

16. A person who is involved in or may be affected by the activities or anyone who has something to gain or lose by the activity of the project is called a:

- A) Team member
- B) Customer
- C) Stakeholder
- D) Supporter

17. Which of the following is not considered as project success?

- A) Complete a project with zero change.
- B) Completing project within schedule.
- C) Delivery of product with the required specification.
- D) Giving bonuses to senior management

18. What does triple constraint include in project management?

- A) Social, economic and technical
- B) Cost, time and scope.
- C) Scope, customer satisfaction and quality
- D) Risk, budget and quality

19. What is the term used for the area that entails processes and activities that define, combine, unify and coordinate the processes and project activities carried out within the various Project management process groups?

- A) Project Integration method
- B) Strategic Management
- C) Operations Management
- D) Project Process Management

20. Consider the following phases of Project management:

- 1) Identification
- 2) Formulation
- 3) Appraisal

4) Implementation

Which of the above phases are relevant sequentially?

- A) 1,2 and 3 only
- B) 1,2 and 4 only
- C) 3 and 4 only
- D) 1,2,3 and 4

21. Which of the following is NOT a characteristic of a project?

- A) Constrained by limited resources
- B) Planned, executed and controlled
- C) Creates a unique product or service
- D) Ongoing and repetitive

22. The process in which application of knowledge, skills, tools and techniques to project activities to meet project requirement is done.

- A) Process management
- B) Programme Management
- C) Quality management
- D) Project management

23. It is the first document of the project and authorises the project manager

- A) Risk register
- B) Programme registers
- C) Project charter
- D) Logbook

24. Mass manufacturing of car in an industry is

- A) Project
- B) Operation
- C) Both project and operation
- D) None of these

25. Reducing the impact of a risk event by reducing the possibility of its occurrence is:

- A) Risk avoidance
- B) Risk acceptance
- C) Risk mitigation
- D) Contingency planning

26. Audit of a project can be done

- 1) Before completion of project
- 2) After completion of project
- 3) Before project starts

- A) All of the above
- B) 1 and 2

- C) 2 only
- D) 1 only

27. Whose responsibility is to balance the constraints in a project?

- A) Project sponsor
- B) Project manager
- C) Project team
- D) Technical team

28. All projects, are officially initiated with a _____ and officially completed with a _____.

- A) Project charter, certificate of acceptance
- B) Detailed project report and certificate of acceptance
- C) Project charter and closure report
- D) Detailed project report and closure report

29. A turn- key contract means

- A) To design and build
- B) To build the structure only
- C) To perform all the functions from inception to completion of the construction
- D) The same as the unit price contract

30. The best way to resolve a conflicts in a project is by

- A) collaborative
- B) confronting
- C) compromising
- D) smoothing

SECTION B

Answer any five:

1. What do you mean by project life cycle? Explain the various stages of project cycle.
2. What are various project constraints? Discuss the method for completing the project in time under various constraints.
3. What is matrix organization. Discuss by a organization chart.
4. Explain social cost-benefit aspects of the projects.
5. Discuss the roles and responsibilities of a project manager.
6. What do you mean by feasibility study of a project? Explain the concept of feasibility study in brief.
7. Explain "Fulkerson's rule".



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