SmartKalike

CBSE Class 12 · Computer Science

projeCT based learnIng

10 most probable questions for Boards 2027

Q1. 2 marks · Short answer

State two benefits of project-based learning for students.

Answer

Project-based learning gives students thorough practical exposure to a problem and helps them organise projects and use time effectively. Group work develops teamwork, problem-solving, decision-making and investigation skills.

Q2. 5 marks · Long answer

Explain how project-based learning develops teamwork skills and how a project problem is analysed, divided into modules, and solved. Include the role of gathering and processing relevant data.

Answer

Project-based learning gives students practical experience in solving problems through organised, collaborative work.

1. Students work in groups and contribute collectively to accomplish a task. This develops teamwork, problem-solving, decision-making and investigation skills.

2. The team analyses the problem and formulates it into smaller modules. Each module is given a well-defined task with a set of inputs.

3. Team members gather relevant data in a format suited to the project. They process the data by applying an appropriate method to solve each module.

4. The solutions of the modules are integrated to produce the complete solution. The results are reported in a predetermined format, with contributions from all team members.

Project-based learning combines practical problem-solving with cooperation and effective use of relevant data.

Q3. 2 marks · Short answer

Name the three approaches to project development mentioned in the textbook.

Answer

1. Modular approach divides a project into manageable modules, each with a well-defined task and a set of inputs.
2. Top down approach is also used to execute projects.
3. Bottom up approach is also used to execute projects.

Q4. 5 marks · Long answer

Explain how a modular project is organised and how its module outputs contribute to the desired outcome. Then outline the project-based learning stages, including how a project may be identified.

Answer

A modular project is organised by dividing work into manageable modules with defined tasks and inputs.
1. A project may be identified from a real-life situation; its usefulness and impact should be understood. The leader and members' roles are defined, activities assigned, and tools identified. Extreme situations should be considered for a better solution.
2. A flexible time frame is fixed because each project activity requires time and completion depends on time management.
3. When participants are unable to proceed, guidance may come from books, websites or experts. The project leader and guide teacher monitor progress.
4. The outcome may be single or multiple; the guide teacher or other users can provide feedback for peer review and modification.
Integrating module outputs produces the desired outcome.

Q5. 2 marks · Short answer

What components, in addition to technical proficiency, contribute to successful teamwork?

Answer

Successful teamwork requires skilled team members with specific roles, effective communication, listening, sharing ideas and expertise, respecting others, helping one another, and active participation in completing the project and group discussions.

Q6. 5 marks · Long answer

Explain how technical proficiency, skilled team members, and specific roles contribute to successful teamwork and achievement of a shared goal.

Full answer on SmartKalike: https://smartkalike.com/cbse/class-12/computer-science/project-based-learning

Q7. 2 marks · Short answer

State two ways effective communication helps members of a team working toward a common goal.

Full answer on SmartKalike: https://smartkalike.com/cbse/class-12/computer-science/project-based-learning

Q8. 5 marks · Long answer

Explain how effective communication helps a team achieve its goal. Describe the methods the team can use to communicate with one another.

Full answer on SmartKalike: https://smartkalike.com/cbse/class-12/computer-science/project-based-learning

Q9. 2 marks · Short answer

Why should team members listen to one another and follow agreed steps while working together?

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Q10. 5 marks · Long answer

A team is working together on a job. Explain how listening to one another in group meetings and following agreed steps can help the members understand each other's ideas.

Full answer on SmartKalike: https://smartkalike.com/cbse/class-12/computer-science/project-based-learning

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