Section II

60 marks Attempt Questions 21–23 Allow about 1 hour and 50 minutes for this section

Answer each question in a SEPARATE writing booklet. Extra writing booklets are available. If you include diagrams in your answer, ensure that they are clearly labelled.

Marks

Question 21 (20 marks) Use a SEPARATE writing booklet.

- (a) Identify TWO important project management techniques. For each technique you have identified, discuss its importance in ensuring the successful completion of a software development project.
- (b) A particular software development project has serious implications for the working conditions of an organisation's employees. There will be job losses and significant changes in people's roles.

In this situation the employees may have negative feelings towards the project and could be quite obstructive as the project team tries to do its work.

Both management and the project team must consider this problem. Discuss TWO strategies that might be adopted.

Question 21 continues on page 11

Question 21 (continued)

(c) The ABC Motel is a small country motel that has recently been taken over by a large administration company, the XYZ Company. You are a systems analyst who has been employed by XYZ to review current operations at the ABC Motel with a view to upgrading and expanding its current computer system.

At present the ABC Motel has a small computer-based system (ABC Motel System) that handles the following:

- reservation of rooms;
- issuing of bills to guests;
- · recording of payment; and
- issuing of receipts for payment.

The motel does not accept credit card payments, nor provide EFTPOS facilities. Payment is by cash or cheque only. All money taken is banked daily.

Each week a room occupancy report and a financial report are forwarded to the XYZ Company.

- (i) Draw the context diagram for the existing ABC Motel System as described above.
- (ii) Draw a data flow diagram (DFD) showing the main processes of the existing ABC Motel System. This diagram should show any relevant data storage.

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- (iii) Explain how the motel employees might assist you in your review of the motel operations and the production of such data flow diagrams.

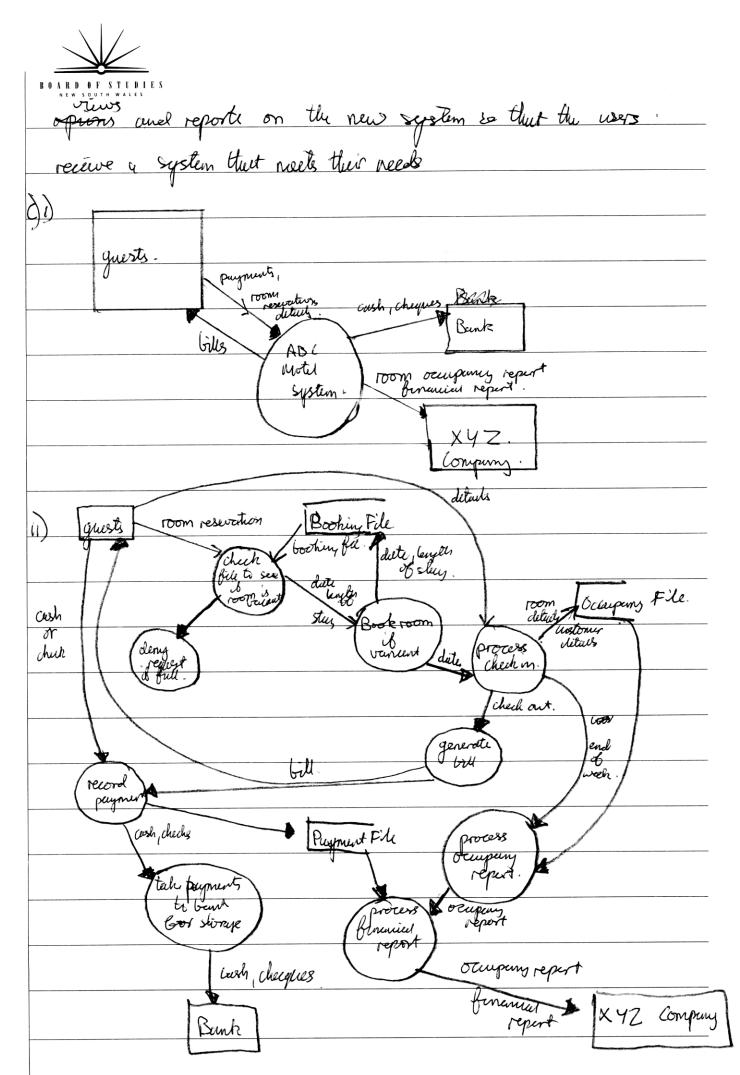
End of Question 21



2 A). Two project management techniques are Gentl church and process dianes. A great chest lists all tasks comp that comprise this project and the expected time spent on such of the tushs. It is important in ensuring the successful complection of a software project because it allows the progress of the project to be charted to where they the term should he up to, as well as helping to identify what his been done up to this point and how long each tust should as wer as reeping the team on schedule to successfully have been focused upon A process dierry is a logbook conglecte the project. Which is filled out by the project team after every day to desirbe any accomplishments or petfelle is the development of the project. It is important that this is done to secure a succeptul project as it allo allows for there defferent teum members to find out what problems others may have had or similar tushs, that coul team number is doing a tusk correctly used on time and also as a tool for new teun newhers to get up to speed and learn wheat problems and accomplishments the team has had. B) Two streggies that Management and the project term can englay to remove negative feelings towards the project are to consult for the project team to consult son users about what they



want from the solution and for management to for provide clear and confuse training for those employees who have to change roles. The project team wer find out what uses need from the system by conducting intervews surveys, quenturares and forms groups to discover what the uses want the new system to do. They can also mobile the users throughout the dwelgans aycle so that they feel the system belongs to them that the Uses is empowered by the uses find out their needs are being worsidered and their ideas used by the project term, they will the change their attitude to the project. The management un help to change the attitude of their staff by providing clear and easy to follow training for staff who have to of change their attitudes practices charing the pro with the new system. By showing them how to specite the new system, some staff > fears of brought upon by not herailing what the system does may disappear. The management can also provide new jobs or help to find similar jobs for those who are retransfeel due to the new systems to so they are able to contains working. Another method of reducing no It-falm Mother welled of reducing ill-faeling is contains communiation between project term and users to provide fast





m) Hotel employees may assist in the review of hotel operations by porrding details about the day-te-day operations of the company, the process done every day and how they are done. The dates can be found out by the project tean through interviewing, surveying, or questanswring the employees of the company. Since they we the people who imprant carry out all the processes they would know the most about how each duty is processed and how they coury out this trush. By obtain this doctor from stuff, the aims on objectives and Countaines of the system can be devilored and determinal, with the sexponer of the stuff before to model the geten If every stuff number is questioned, all the process carried out is the system can be defer formel and the relectionships between these processes, external entities and data stires and be formed allowing for in accurate and detected Diles flow digreen