Rajiv Gandhi University of Health Sciences, Karnataka

II semester Bachelors in Hospital Administration Degree Examination – OCT-2019

Time: Three Hours Max. Marks: 80 Marks

Hospital Operation Management

Q.P. CODE: 1305

Your answers should be specific to the questions asked. Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) 2 x 10 = 20 Marks

1. Discuss the various factors considered in surveying the need for a hospital in a community.
2. What is a committee? Discuss the role and functions of any four committees in hospital.
3. Write a note on the planning and design consideration for a surgical department.

SHORT ESSAYS (Answer any Eight) 8 x 5 = 40 Marks

4. Hat are the guiding principles in planning a hospital
5. Role of a hospital administrator
6. Planning and design consideration for a medical records department in a hospital
7. Discuss the design consideration for providing laundry services in a hospital.
8. Write a note on planning and designing centralized medical gas system.
9. Discuss the role of housekeeping department in improving patient safety.
10. Design consideration for providing safer radiological services
11. Discuss the consideration for improving efficiency of work in an ICU.
12. Planning should follow function. Discuss the term with reference to CSSD.
13. Discuss the workflow and design consideration for admission department.

SHORT ANSWERS (Answer any ten) 10 x 2 = 20 Marks

14. Difference between bed capacity and bed compliment
15. Classification of hospital equipment's.
16. Shop window of a hospital
17. Water and power consumption in a hospital
18. Objective of air-conditioning in the Mortuary and autopsy room
19. What is Gantt chart and enumerate any three uses of the same.
20. Differentiate between accounting unit and business unit
21. Site Cover Percentage and Floor Area Ratio meaning
22. Promotional tools used by hospital for marketing
23. What is the use of Laminar airflow and where are they used in a hospital?
24. Basis for estimating vehicle parking space for a hospital
25. Enumerate the functions of the governing board.

Rajiv Gandhi University of Health Sciences, Karnataka

II semester Bachelors in Hospital Administration Degree Examination – April-2019

Time: Three Hours | Max. Marks: 80 Marks

Hospital Operation Management

Q.P. CODE: 1305

Your answers should be specific to the questions asked. Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) 2 x 10 = 20 Marks

1. Discuss the term disaster. What are the different types of disaster? Write a note on the disaster preparedness plan.
2. Discuss the designing requirements for the Centralized Medical Gas system in a hospital.
3. Discuss the design consideration and workflow in the laundry and linen department in providing quality patient care.

SHORT ESSAYS (Answer any Eight) 8 x 5 = 40 Marks

4. Write a note on hospital committee and other functionaries.
5. “Success of a hospital depends on getting the circulation routes right”. Discuss.
6. Write a note on the planning and designing of hospital Public areas.
7. Discuss the factors that effect hospital utilization.
8. Duties and responsibilities of Human Resource Manager
9. Planning and designing consideration for preventing nosocomial infection in the surgical department
10. Write a note on the organization of a hospital.
11. Physical facilities, location and space required for ambulatory service in a hospital. Illustrate with suitable diagram.
12. Physical facilities and designing consideration for radiology department
13. Write a note on the importance and requirements for hospital information system.

SHORT ANSWERS (Answer any ten) 10 x 2 = 20 Marks

14. Considerations before choosing the site for a hospital
15. What is Shake Down period?
16. Members in the planning team
17. Areas covered in the financial planning for hospital project
18. Classification of hospital equipment’s
19. Enumerate the legal requirements for a hospital.
20. Write a note on Gantt chart.
21. What is bed capacity and which is the bed that is not included in the bed capacity?
22. What is Site Cover Percentage? Write a note on Floor Area Ratio.
23. What is the overall estimated requirement for water and power in hospital?
24. Illustrate the workflow in the admitting department.
25. Types of filing system in the medical records department

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Rajiv Gandhi University of Health Sciences, Karnataka

II semester Bachelors in Hospital Administration Degree Examination – APRIL-2019

Time: Three Hours Max. Marks: 80 Marks

Business Statistics

Q.P. CODE: 1306

(QP contains two pages)

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) 2 x 10 = 20 Marks

1. Following are the prices and quantities purchased on five items of medicines in a hospital during two years. Calculate Index number for the year 2012 with 2010 as the base year by Laspeyres method.

Type of medicines	Quantity marketed in base 2010	Price per unit quantity in 2010	Price per unit quantity in 2012
1	20500	3.41	5.32
2	15100	4.15	8.22
3	15500	7.66	9.24
4	18500	8.36	10.48
5	31500	9.32	16.48

2. Describe applications of Statistical Methods in Hospital Management.
3. Briefly describe different measures of Dispersion illustrating their applicability in different situations.

SHORT ESSAYS (Answer any Eight) 8 x 5 = 40 Marks

4. What are the considerations in constructing Index numbers and list all the different types of Index numbers?
5. Describe Percentiles and Quartiles.
6. Describe the difference between Arithmetic Average and Geometric Average and their uses.
7. Illustrate Graphical methods of presentation of data.
8. Describe Least Square Method of fitting Trends.
9. Describe formula for calculation of Pearsonian Correlation and Regression of a set of data.
10. Calculate the Weighted Average of the marks obtained by a student with the following data.

Marks obtained in four examinations	65	60	72	70
Weight given for each examination	1.0	2.0	2.5	3.0

11. Describe different types of Trends in understanding Time Series Analysis.
12. Describe calculation of Spearman's Rank Correlation.
13. Following are the data on income generated in different years of a hospital. Calculate three year Moving Averages for the data.

Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Income	2911	2829	2685	2865	2888	2777	2798	2858	2973	3000

Rajiv Gandhi University of Health Sciences, Karnataka

SHORT ANSWERS (Answer any ten) 10 x 2 = 20 Marks

14. Proportional Bar diagram
15 Geometric Mean
16. Pie chart
17. Weighted Mean
18. Inter Quartile Range
19. Secular trend
20. Role of market for assessing calculation of Index numbers
21. Role of Mean and Median as Measures of Central Tendency
22. Cyclic Trends
23. Role of Pearsonian Correlation and Regression in Hospital Administration
24. Co-efficient of Variation
25. Index numbers

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Rajiv Gandhi University of Health Sciences, Karnataka

II semester Bachelors in Hospital Administration Degree Examination – OCT-2019

Time: Three Hours Max. Marks: 80 Marks

Business Statistics

Q.P. CODE: 1306

(QP contains two pages)

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) 2 x 10 = 20 Marks

1. Discuss the different ways of graphically representing the data with examples.
2. What do you understand by measures of central tendency? Explain the different measures of central tendency used in statistics.
3. Define measures of dispersion. Calculate Standard Deviation and Coefficient of Variation for the following data:

Age (Years)	No. of Patients
10-20	5
20-30	10
30-40	15
40-50	4
50-60	1
Total	35

SHORT ESSAYS (Answer any Eight) 8 x 5 = 40 Marks

4. Write a note on correlation and regression.
5. What is index number? Explain briefly the classifications of index number.
6. What is time series? Describe types of trends in time series analysis.
7. Define correlation. Calculate Karl Pearson Correlation Coefficient for the following data regarding sales and expenses. Interpret the result.

Expenditure	39	65	62	90	82	75	25	98	36	78
Sales	47	53	58	86	62	68	60	91	51	84

8. What are considerations in constructing index numbers? List all the different methods of index numbers.
9. Write a note on rank correlation.
10. What do you mean by Statistics? Explain functions, scope and limitation of Statistics.
11. Describe the methods of tabulation of data.
12. Write a note on Coefficient of Variation.
13. Describe briefly the concept of moving average and least square method.

Rajiv Gandhi University of Health Sciences, Karnataka

SHORT ANSWERS (Answer any ten) 10 x 2 = 20 Marks

14. What do you mean by base year in index numbers? Give one example.
15. Write any two differences between diagram and graph.
16. What is weighted average method?
17. What is time series? Give any one example.
18. Write the differences between Correlation and Regression.
19. What is Quartile?
20. What is Rank correlation?
21. Why Statistics is important in hospital administration?
22. What is Fischer's method in Index numbers?
23. What is bar diagram? Draw a neat labeled diagram with example.
24. Draw a neat labeled diagram of pie chart with different services provided in hospital as an example.
25. What is range?

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Rajiv Gandhi University of Health Sciences, Karnataka

II semester Bachelors in Hospital Administration Degree Examination –OCT-2019

Time: Three Hours Max. Marks: 80 Marks

Project Management

Q.P. CODE: 1307

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) 2 x 10 = 20 Marks

1. Explain McKinsey's 7's model in project management.
2. Explain concept on project appraisal.
3. Explain concept on PERT and CPM.

SHORT ESSAYS (Answer any Eight) 8 x 5 = 40 Marks

4. Explain project manager as line manager and staff manager.
5. Explain program management Vs project management.
6. Briefly explain project life cycle.
7. Briefly explain steps involved in project planning cycle.
8. Distinguish project driven and non-project driven organization
9. Explain the role of project manager.
10. Explain marketing and technical feasibility in project management.
11. Explain project pricing.
12. Describe controlling function in project management.
13. Discuss on crash time.

SHORT ANSWERS (Answer any ten) 10 x 2 = 20 Marks

14. What is meant by project management?
15. What is meant by work package?
16. What is meant by critical path?
17. What is a milestone?
18. Explain the concept of review meetings.
19. What is WBS?
20. What do mean by feasibility study?
21. What do mean by project authority?
22. What is project specification?
23. What is project cost?
24. Write a short note on project management triangle.
25. What is meant by motivation?

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Rajiv Gandhi University of Health Sciences, Karnataka

II semester Bachelors in Hospital Administration Degree Examination –APRIL-2019

Time: Three Hours Max. Marks: 80 Marks

Project Management

Q.P. CODE: 1307

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) 2 x 10 = 20 Marks

1. Explain briefly the project management functions.
2. Who is a project manager? Explain project life cycle.
3. What is pricing estimating? Explain the types of estimates.

SHORT ESSAYS (Answer any Eight) 8 x 5 = 40 Marks

4. Explain the project planning cycles.
5. Explain feasibility of the project.
6. Describe briefly project manager as a planning agent.
7. Explain the concept of CPM and PERT.
8. Difference between Product v/s Project Management
9. Write a note on Programs and Projects.
10. Explain Estimating total Program time and Crash time.
11. Explain different elements of project cost.
12. How communication play an important role in project management. Explain.
13. Explain the role of Project Manager, Line Manager and Staff Manager.

SHORT ANSWERS (Answer any ten) 10 x 2 = 20 Marks

14. What is Project management?
15. What is Project planning?
16. What is price estimation?
17. What is Project specification?
18. What is Milestone schedule?
19. What is Work breakdown structure?
20. What is Shared value?
21. What is status reporting?
22. What is Project review meeting?
23. What is autocratic leadership?
24. What is the role of project executives?
25. What is meant by Crash time?

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Rajiv Gandhi University of Health Sciences, Karnataka

II semester Bachelors in Hospital Administration Degree Examination – OCT-2019

Time: Three Hours Max. Marks: 80 Marks

Health Economics

Q.P. CODE: 1308

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) 2 x 10 = 20 Marks

1. Explain the various concepts of national income.
2. Explain the various methods of demand forecasting and name the criteria for good demand forecasting.
3. What is price discrimination? Explain the measures to control it.

SHORT ESSAYS (Answer any Eight) 8 x 5 = 40 Marks

4. Decision making and forward planning
5. Responsibility of business economist
6. Law of supply
7. Exceptions of law of demand
8. Price leadership
9. Investment on health
10. Methods of national income estimates
11. Measures to control business cycles
12. Law of equi-marginal utility
13. Different pricing methods

SHORT ANSWERS (Answer any ten) 10 x 2 = 20 Marks

14. Define national income.
15. What is per capita income?
16. What is depression?
17. What is total utility?
18. What is selling cost?
19. Define monopolistic competition.
20. What is dual pricing?
21. What is duo poly market?
22. What are internal economies?
23. What is physical and mental health?
24. What is transmissible disease?
25. What is inflation?

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Rajiv Gandhi University of Health Sciences, Karnataka

II semester Bachelors in Hospital Administration Degree Examination – APRIL-2019

Time: Three Hours | Max. Marks: 80 Marks

Health Economics

Q.P. CODE: 1308

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5. Responsibility of business economist
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