Rajiv Gandhi University of Health Sciences, Karnataka

II semester Bachelors in Hospital Administration Degree Examination – 04-Jan-2022

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. Write a note on the types and principles of disaster preparedness plan.
2. Discuss the designing of laboratory services based on their work flow. Write a note on their physical facilities and auxiliary requirement.
3. Discuss the design consideration and workflow in the CSSD 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 pediatric nursing unit.
7. Write a note on Master Plan.
8. Duties and Responsibilities of Hospital Administrator
9. Planning and designing consideration for radiology department.
10. Write a note on the organization of a hospital.
11. Importance of ambulatory service in a hospital. Illustrate with suitable diagram.
12. Physical facilities and designing consideration for materials department.
13. Discuss the importance of hospital information system.

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

14. Site selection consideration
15. Types of filling system in the medical records department
16. Members in the planning team
17. Areas covered in the financial planning
18. Classification of hospital equipment's
19. Triage
20. Write a note on Gantt chart.
21. What is bed capacity and bed compliment? Which are the beds that are 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. Carpet area, plinth area and super build up area.
25. Illustrate an efficient design for Intensive Care Unit (ICU).

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Rajiv Gandhi University of Health Sciences, Karnataka

II semester Bachelors in Hospital Administration Degree Examination – 12-Jan-2022

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. Calculate Mean and Standard deviation for the following data on number of x-rays taken per day during a year in a hospital

No. of x-rays taken per day	No. of days
2	24
3	45
4	68
5	76
6	70
7	45
8	37
Total	365

2. Describe different qualitative methods of data collection explaining the merits and demerits of each method.

3. Following are prices of certain items purchased in a hospital in different years. Calculate the Index number of all the items in different years by Simple Aggregate method with 2006 as base year.

Cost per unit in various years in Rs.						
Item	Quantity purchased in year 2006	2006	2007	2008	2009	2010
Item 1	31000	3.41	4.68	4.75	6.0	7.0
Item 2	17600	6.1	7.4	7.78	8.75	9.0
Item 3	14000	6.66	8.94	10.65	9.45	11
Item 4	17800	7.36	7.25	7.65	7.89	8.98
Item 5	92000	4.32	5.9	5.19	7.78	8.88

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

4. Describe the trends observed in Time series data.
5. Explain the different methods of presentation of data in graphs.
6. Describe basic principles to be kept in mind while tabulation of data.
7. Explain the difference between Correlation and Regression and illustrate their uses in hospital management.
8. Explain the basic principles to be followed while drawing graphs.
9. Explain different scales of measurements.
10. Describe different types of quantitative methods of data collection.
11. What is a scatter diagram? Illustrate three types of relations which can be derived from Scatter diagram.
12. What are the considerations to be taken for calculating Index numbers?
13. Calculate three years moving average for the following data.

Rajiv Gandhi University of Health Sciences, Karnataka

Year	OPD attendance per day a hospital
2001	247
2002	250
2003	261
2004	258
2005	284
2006	291
2007	282
2008	268
2009	270
2010	268

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

14. Frequency distribution table.
15. Co-efficient of variation.
16. Percentiles.
17. Geometric mean.
18. Interval scale in measurement of data.
19. Role of selection of commodities in calculation of Index numbers.
20. Classification of data.
21. Co-efficient of Variation.
22. Median and Mode and their uses.
23. Ogive and its uses.
24. Difference between Proportional and Multiple bar diagram.
25. Mean deviation.

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Rajiv Gandhi University of Health Sciences, Karnataka

II Semester Bachelors in Hospital Administration Degree Examination - 04-Jan-2022

Time: Three Hours **Max. Marks: 80 Marks**

Organizational Behavior (RS-2)

Q.P. CODE: 3233

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. What is learning? Explain theories of learning and reinforcement.
2. What are the steps involved in Organizational change and how to overcome resistance to change?
3. Define personality. Explain theories of personality and discuss why we consider personality for organizational effectiveness.

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

4. Write the common qualities and traits of a leader?
5. Bring out the different techniques of group decision making
6. Write a note on factors influencing Perception.
7. Define Group. Write the Stages in group formation.
8. "Working together isn't always easy"-discuss. Write a note on conflict resolution strategies.
9. Explain learning styles and learning curves.
10. Define motivation. Explain the theories.
11. "Attitudes are acquired and not inherited" Discuss.
12. Write a note on Managerial skills.
13. Write a note on types of organization.

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

14. What is Job enrichment and why is it important?
15 Organizational Behavioral Modification.
16. Differentiate between line structure and functional structure.
17. McClelland's Need Achievement theory
18. What is Quality Circle?
19. Mention any two OB Models.
20. Enlist theories of Leadership.
21. Steps in Perceptual process.
22. Financial & Non-financial incentives.
23. Challenges of OB.
24. Herzberg's Two factor theory.
25. Components of Attitude.

Rajiv Gandhi University of Health Sciences, Karnataka

II Semester Bachelors in Hospital Administration Degree Examination - 10-Jan-2022

Time: Three Hours **Max. Marks: 80 Marks**

BIO STATISTICS (RS-2)
Q.P. CODE: 3234
(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. What is variation? Explain measures

2. The height (X cms) and weight (Y kgs) of 6 students are as follows. Obtain the two regression equations. Also find the expected height of a person whose weight is 60 kgs

X	153	157	168	160	170	163
Y	48	50	50	49	54	5

3. What is Graph and diagram? Explain its types with example

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

4. Write a note on mean and mode
5. Explain methods of data, collection
6. For the following distribution of heights of students find the median

Height (cms)	130-139	140-149	150-154	155-159	160-164	165-169	170-179
No. of students	2	3	11	22	21	7	9

7. Write a note on rank correlation
8. What is an average? Explain different types of averages
9. What are the different methods used to construct index number?
10. Describe central tendency
11. Write a note on frequency 8 correlation
12. Write a note on price index number
13. Write a note on standard deviation and coefficient variation

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

14. What is base year and current year?
15 Percentile
16. Types of data
17. Define median
18. What is probability?
19. Define frequency density
20. Secular trend
21. What is primary and secondary data?
22. Scatter trend
23. What is frequency curve?
24. Probable error
25. Any two use of time series

Rajiv Gandhi University of Health Sciences, Karnataka

II Semester Bachelors in Hospital Administration Degree Examination - 14-Jan-2022

Time: Three Hours **Max. Marks: 80 Marks**

HEALTH ECONOMICS - (RS-2)
Q.P. CODE: 3235

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. Define business economics. Explain the nature and scope of business economics in reference to healthcare.
2. Explain the various methods of demand forecasting.
3. Define perfect competition. Explain how an equilibrium process is determined in perfect competition.

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

4. Differentiate between inflation and deflation.
5. What are the exceptions of the law of demand?
6. Write a note on public private partnerships in healthcare sector.
7. Explain the different sources of public revenue.
8. Write a note on Gross national product.
9. Differentiate between oligopoly and monopoly.
10. What do you mean by profit maximization?
11. Explain the different measures to control business cycle.
12. Explain the features and objectives of pricing policy.
13. Explain the production function with two variable inputs (Iso quants and Iso costs).

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

14. Define marginal cost.
15 What is per capita income?
16. Define national income.
17. What is penetration pricing?
18. Define business cycle.
19. What is economics of scale?
20. What is recession?
21. Define the law of variable proportions.
22. Define revenue.
23. What is demand curve?
24. Define tax
25. Define price leadership.

Rajiv Gandhi University of Health Sciences, Karnataka

II Semester Bachelors in Hospital Administration Degree Examination–19-Jan-2022

Time: Three Hours **Max. Marks: 80 Marks**

Epidemiology and Public Health Administration (RS-2)

Q.P. CODE: 3236

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. Enumerate the strategies adopted in National Leprosy control Programme in India.
2. Define Health education. Explain the methods and materials used for health communication.
3. Discuss Central, state and local levels of health care delivery system in India.

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

4. International Red Cross Society
5. Importance of voluntary health agencies in delivering health services in India.
6. Enumerate nutritional problems in India.
7. Explain Demographic cycle.
8. National rural health mission.
9. Safe water and sanitation programme.
10. Health for all 2000AD
11. Write a note on National Filaria control programme
12. Objective of Five-year plans.
13. Write a note on UNICEF.

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

14. *Functions of BSS(Bharat Sevak Samaj.*
15 DOTS
16. Role of Indian Council for Child Welfare.
17. Define MMR with current statistics.
18. Vision 2020
19. Levels of prevention.
20. Define Small family norm.
21. Union list of DGHS.
22. Define Demography.
23. FAO.
24. Functions of Central social welfare board.
25. Role of Medical officer.

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Rajiv Gandhi University of Health Sciences, Karnataka

II semester Bachelors in Hospital Administration Degree Examination – 04-Jan-2022

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. Write a note on the types and principles of disaster preparedness plan.
2. Discuss the designing of laboratory services based on their work flow. Write a note on their physical facilities and auxiliary requirement.
3. Discuss the design consideration and workflow in the CSSD 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 pediatric nursing unit.
7. Write a note on Master Plan.
8. Duties and Responsibilities of Hospital Administrator
9. Planning and designing consideration for radiology department.
10. Write a note on the organization of a hospital.
11. Importance of ambulatory service in a hospital. Illustrate with suitable diagram.
12. Physical facilities and designing consideration for materials department.
13. Discuss the importance of hospital information system.

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

14. Site selection consideration
15. Types of filling system in the medical records department
16. Members in the planning team
17. Areas covered in the financial planning
18. Classification of hospital equipment's
19. Triage
20. Write a note on Gantt chart.
21. What is bed capacity and bed compliment? Which are the beds that are 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. Carpet area, plinth area and super build up area.
25. Illustrate an efficient design for Intensive Care Unit (ICU).

Rajiv Gandhi University of Health Sciences, Karnataka

II semester Bachelors in Hospital Administration Degree Examination – 12-Jan-2022

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. Calculate Mean and Standard deviation for the following data on number of x-rays taken per day during a year in a hospital

No. of x-rays taken per day	No. of days
2	24
3	45
4	68
5	76
6	70
7	45
8	37
Total	365

2. Describe different qualitative methods of data collection explaining the merits and demerits of each method.

3. Following are prices of certain items purchased in a hospital in different years. Calculate the Index number of all the items in different years by Simple Aggregate method with 2006 as base year.

Cost per unit in various years in Rs.						
Item	Quantity purchased in year 2006	2006	2007	2008	2009	2010
Item 1	31000	3.41	4.68	4.75	6.0	7.0
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Item 4	17800	7.36	7.25	7.65	7.89	8.98
Item 5	92000	4.32	5.9	5.19	7.78	8.88

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

4. Describe the trends observed in Time series data.
5. Explain the different methods of presentation of data in graphs.
6. Describe basic principles to be kept in mind while tabulation of data.
7. Explain the difference between Correlation and Regression and illustrate their uses in hospital management.
8. Explain the basic principles to be followed while drawing graphs.
9. Explain different scales of measurements.
10. Describe different types of quantitative methods of data collection.
11. What is a scatter diagram? Illustrate three types of relations which can be derived from Scatter diagram.
12. What are the considerations to be taken for calculating Index numbers?
13. Calculate three years moving average for the following data.

Rajiv Gandhi University of Health Sciences, Karnataka

Year	OPD attendance per day a hospital
2001	247
2002	250
2003	261
2004	258
2005	284
2006	291
2007	282
2008	268
2009	270
2010	268

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

14. Frequency distribution table.
15. Co-efficient of variation.
16. Percentiles.
17. Geometric mean.
18. Interval scale in measurement of data.
19. Role of selection of commodities in calculation of Index numbers.
20. Classification of data.
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22. Median and Mode and their uses.
23. Ogive and its uses.
24. Difference between Proportional and Multiple bar diagram.
25. Mean deviation.

Rajiv Gandhi University of Health Sciences, Karnataka

II semester Bachelors in Hospital Administration Degree Examination –21-Jan-2022

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. What is meant project management? Explain the importance of Project management cycle in hospitals
2. What is project appraisal? Explain in detail step involved in project appraisal
3. Explain the concept of PERT and CPM with suitable example

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

4. The role of project manager as line manager and staff manager
5. Differentiate between project driven and non-project driven organization
6. Write a note on work breakdown structure
7. Explain briefly project planning cycle
8. Explain different types of project feasibility
9. Explain the concept of project management functions
10. Explain different types of pricing estimates
11. Write a note on proposal writing
12. Differentiate between program management and project management
13. Discuss project manager as planning agent

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

14. What is project management triangle?
15. Role of project manager
16. What do you mean by project authority?
17. What is project control?
18. Product v/s Project management
19. What is milestone?
20. What is schedule?
21. What is project specifications?
22. What are the importance of project feasibility?
23. What is crash time?
24. What is estimating activity time?
25. What is overhead costs?

Rajiv Gandhi University of Health Sciences, Karnataka

II semester Bachelors in Hospital Administration Degree Examination – 31-Jan-2022

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 meaning, methods and difficulties in measuring National Income
2. Briefly explain the economics of communicable and non-communicable diseases
3. Explain elasticity of demand

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

4. Explain the law of equi-marginal utility
5. What are trade cycles?
6. Write in brief the objectives of business economics
7. Write in detail the assumptions of law of diminishing marginal utility
8. Discuss with illustration the social and economic objectives of business statistics
9. Mention the scope of business economics
10. Explain indifference curve
11. Explain the uses of Health programs undertaken by Government, in economics
12. Explain the law of demand. What is price elasticity of demand?
13. Define Health economics. Explain the importance of economic evaluation in health program

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

14. What is consumer behaviour?
15. Mention the exclusive criteria for the law of diminishing marginal utility with suitable examples
16. Define Perfect competition
17. Define Market
18. Define Indirect cost
19. Explain non communicable disease
20. Explain CEA
21. Types of consumption
22. What is linear programming?
23. Convexity in indifference curve
24. What is economic evaluation?
25. What is micro analysis?

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Rajiv Gandhi University of Health Sciences, Karnataka

II Semester Bachelors in Hospital Administration Degree Examination - 04-Jan-2022

Time: Three Hours **Max. Marks: 80 Marks**

Organizational Behavior (RS-2)

Q.P. CODE: 3233

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. What is learning? Explain theories of learning and reinforcement.
2. What are the steps involved in Organizational change and how to overcome resistance to change?
3. Define personality. Explain theories of personality and discuss why we consider personality for organizational effectiveness.

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

4. Write the common qualities and traits of a leader?
5. Bring out the different techniques of group decision making
6. Write a note on factors influencing Perception.
7. Define Group. Write the Stages in group formation.
8. "Working together isn't always easy"-discuss. Write a note on conflict resolution strategies.
9. Explain learning styles and learning curves.
10. Define motivation. Explain the theories.
11. "Attitudes are acquired and not inherited" Discuss.
12. Write a note on Managerial skills.
13. Write a note on types of organization.

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

14. What is Job enrichment and why is it important?
15 Organizational Behavioral Modification.
16. Differentiate between line structure and functional structure.
17. McClelland's Need Achievement theory
18. What is Quality Circle?
19. Mention any two OB Models.
20. Enlist theories of Leadership.
21. Steps in Perceptual process.
22. Financial & Non-financial incentives.
23. Challenges of OB.
24. Herzberg's Two factor theory.
25. Components of Attitude.

Rajiv Gandhi University of Health Sciences, Karnataka

II Semester Bachelors in Hospital Administration Degree Examination - 10-Jan-2022

Time: Three Hours **Max. Marks: 80 Marks**

BIO STATISTICS (RS-2)
Q.P. CODE: 3234
(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. What is variation? Explain measures

2. The height (X cms) and weight (Y kgs) of 6 students are as follows. Obtain the two regression equations. Also find the expected height of a person whose weight is 60 kgs

X	153	157	168	160	170	163
Y	48	50	50	49	54	5

3. What is Graph and diagram? Explain its types with example

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No. of students	2	3	11	22	21	7	9

7. Write a note on rank correlation
8. What is an average? Explain different types of averages
9. What are the different methods used to construct index number?
10. Describe central tendency
11. Write a note on frequency 8 correlation
12. Write a note on price index number
13. Write a note on standard deviation and coefficient variation

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

14. What is base year and current year?
15 Percentile
16. Types of data
17. Define median
18. What is probability?
19. Define frequency density
20. Secular trend
21. What is primary and secondary data?
22. Scatter trend
23. What is frequency curve?
24. Probable error
25. Any two use of time series

Rajiv Gandhi University of Health Sciences, Karnataka

II Semester Bachelors in Hospital Administration Degree Examination - 14-Jan-2022

Time: Three Hours **Max. Marks: 80 Marks**

HEALTH ECONOMICS - (RS-2)
Q.P. CODE: 3235

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. Define business economics. Explain the nature and scope of business economics in reference to healthcare.
2. Explain the various methods of demand forecasting.
3. Define perfect competition. Explain how an equilibrium process is determined in perfect competition.

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

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5. What are the exceptions of the law of demand?
6. Write a note on public private partnerships in healthcare sector.
7. Explain the different sources of public revenue.
8. Write a note on Gross national product.
9. Differentiate between oligopoly and monopoly.
10. What do you mean by profit maximization?
11. Explain the different measures to control business cycle.
12. Explain the features and objectives of pricing policy.
13. Explain the production function with two variable inputs (Iso quants and Iso costs).

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

14. Define marginal cost.
15 What is per capita income?
16. Define national income.
17. What is penetration pricing?
18. Define business cycle.
19. What is economics of scale?
20. What is recession?
21. Define the law of variable proportions.
22. Define revenue.
23. What is demand curve?
24. Define tax
25. Define price leadership.

Rajiv Gandhi University of Health Sciences, Karnataka

II Semester Bachelors in Hospital Administration Degree Examination–19-Jan-2022

Time: Three Hours **Max. Marks: 80 Marks**

Epidemiology and Public Health Administration (RS-2)

Q.P. CODE: 3236

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. Enumerate the strategies adopted in National Leprosy control Programme in India.
2. Define Health education. Explain the methods and materials used for health communication.
3. Discuss Central, state and local levels of health care delivery system in India.

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

4. International Red Cross Society
5. Importance of voluntary health agencies in delivering health services in India.
6. Enumerate nutritional problems in India.
7. Explain Demographic cycle.
8. National rural health mission.
9. Safe water and sanitation programme.
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11. Write a note on National Filaria control programme
12. Objective of Five-year plans.
13. Write a note on UNICEF.

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

14. *Functions of BSS(Bharat Sevak Samaj.*
15 DOTS
16. Role of Indian Council for Child Welfare.
17. Define MMR with current statistics.
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22. Define Demography.
23. FAO.
24. Functions of Central social welfare board.
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