

(3 Hours)

[ Total Marks : 100

28<sup>th</sup> April, 2012

N. B. : All questions are compulsory.

Q.I. Answer the following questions. (40)  
Each question carries 2 marks.

- 1) Explain the role of Vitamin A in vision with the help of a diagram..
- 2) Give the overall equation for complete oxidation of one molecule of glucose under aerobic conditions.
- 3) What is alkaptonuria?
- 4) Provide the structure of cyclic AMP.
- 5) Enumerate the metabolic defect and the symptoms of homocystinuria.
- 6) What is an irreversible enzyme inhibitor. Give an example.
- 7) Define the terms Glycemic Index and Glycemic load.
- 8) Explain the importance of Dietary fiber in the diet.
- 9) What are the different forms of calcium present in Serum?
- 10) Name the branched chain and aromatic amino acids.
- 11) Describe the structure of haemoglobin.
- 12) What is "one-carbon transfer"
- 13) List out the dietary restrictions in a gluten free diet in Wilson's disease.
- 14) What are the important parameters included in the lipid profile?
- 15) Give pH values of the following biological fluids: Bile, Urine, Gastric juice, Blood.
- 16) Name the buffer systems present in the blood.

Define the following

- 17) Bulimia Nervosa.
- 18) Free radicals
- 19) Glossitis
- 20) Negative nitrogen balance.

Q.II. Attempt any **three** questions out of five. (30)

- 1) Explain the importance of Omega-3 fatty acids in the diet. How can they be incorporated in the diet ? Give examples.
- 2) Discuss the nutritional care of patient with acute pancreatitis
- 3) Describe what happens to carbohydrate metabolism during starvation.
- 4) What is fermentation? Give the advantages of fermentation and disadvantages of foods produced by the fermentative action of moulds.
- 5) Discuss the major causes of food spoilage.

Q.III. Attempt **any two** questions out of four (30)

- 1) Discuss the Nutritional Support required during peritoneal Dialysis.
- 2) Enumerate the methods of determining Nutritive value of protein.
- 3) Explain the objectives, steps and factors affecting meal planning.
- 4) What is the role of nutrition in the prevention and management of cardiovascular disorders.

**N. B. : All questions are compulsory.**

**Q1 Fill in the blanks with one of the options provided (40)**

1. \_\_\_\_ tests are intended to assess how much we have learnt following a specific course of instruction
  - a) intelligence
  - b) aptitude
  - c) ability
  - d) achievement
2. In the \_\_\_\_ design, two groups are selected (test and control) and the treatment is introduced into the test group only
  - a) before and after with control
  - b) before and after without control
  - c) after only with control design
  - d) completely randomized design
3. “Empty chair”, “Playing the projection” and “Assuming responsibility” are techniques used by \_\_\_\_ therapists
  - a) Gestalt
  - b) Behaviour Modification
  - c) Client- Centered
  - d) Transactional Analysis
4. If the child manipulates play material and experiments with the way things go together it is called \_\_\_\_ play
  - a) constructive
  - b) symbolic
  - c) functional
  - d) social
5. A theory of Human Development is better if it stimulates the creation of new research techniques and knowledge . This criterion is known as \_\_\_\_
  - a) comprehensiveness
  - b) adaptability
  - c) fertility
  - d) originality

6. The individual who is good at memorizing names, places and dates is called a          learner
- logical
  - linguistic
  - kinesthetic
  - spatial
7. The key concept in Gestalt therapy is \_\_\_\_\_
- unconscious
  - self-actualisation
  - awareness
  - communication
8. \_\_\_\_\_ advocated an approach of educating children called naturalism
- Piaget
  - Rousseau
  - Froebel
  - Rogers
9. Thurstone type scales are also called \_\_\_\_\_ scales
- arbitrary
  - differential
  - summative
  - cumulative
10. When the infant who is separated from his mother and then reunited shows difficulties settling down and mixes active contact seeking with fussiness he is said to have a \_\_\_\_\_ attachment
- anxious
  - anxious avoidant
  - anxious resistant
  - disorganized
11. According to Guttman (1993), the third stage in the divorce process is \_\_\_\_\_
- deciding
  - separation
  - struggling
  - exploration

12. There is positive skewness when \_\_\_\_\_
- the curve is distorted to the left
  - the curve is distorted to the right
  - the curve is distorted on both sides
  - there is no distortion
13. The psychosocial crisis during the 4<sup>th</sup> and 5<sup>th</sup> year of life according to Erikson is \_\_\_\_\_
- autonomy vs shame and doubt
  - initiative vs guilt
  - industry vs inferiority
  - trust vs mistrust
14. If a worker says to himself "I've worked in this firm for 30 years so I must like my job, this statement reflects the \_\_\_\_\_ theory
- Self-perception
  - Affect
  - Social Comparison
  - Social information processing
15. The recommended adult-child ratio in the day care is \_\_\_\_\_
- 1:2
  - 1:4
  - 1:6
  - 1:8
16. If the individual is high on dominance and low on dependency, he is said to have \_\_\_\_\_ characteristics
- masculinity
  - femininity
  - androgyny
  - undifferentiated
17. The last stage of moral development according to Kohlberg is \_\_\_\_\_
- law and order orientation
  - universal ethical principles
  - social contract
  - personal orientation

18. In the \_\_\_\_\_ type of eating disorder the individual binge eats and then purges

- a) anorexia
- b) obesity
- c) pica
- d) bulimia

19. Counsellors should refrain from \_\_\_\_\_

- a) keeping silent
- b) asking questions
- c) giving information
- d) giving advice

20. The child who has difficulty in writing is said to have \_\_\_\_\_

- a) dyslexia
- b) dysgraphia
- c) dyscalculia
- d) aphasia

**Q 2 Attempt any three questions out of five**

**(30)**

- 1) Citing research , highlight relevant issues in the realm of self-esteem.
- 2) Examine the core characteristics of Attention –Deficit -Hyperactive Disorder and suggest educational interventions to deal with this problem.
- 3) “Highlight the ethical considerations to be borne in mind while engaging in psychological testing with clients.
- 4) A. Describe Erikson’s psychosocial stages of development .  
B. In which stage of development do you place yourself? Support your answer with convincing arguments.
- 5) “Conflict management is an integral part of organizational functioning” Shed light on the types of conflicts that can emerge in an organization and strategies for managing the same.

**Q3. Attempt any two questions out of four (30)**

- 1) You are about to embark on a research project . Describe in detail the stages in the research process.
  - 2) “Mainstreaming and integrating special children in regular classrooms has become an issue of tremendous controversy”. Comment “
  - 3) “Behâviour modification approaches are versatile and can be employed in a host of situations with a variety of problems”. Bring out the essence of this statement.
  - 4) Discuss the contemporary adolescents’ ability to fulfill the developmental tasks that are expected of them with special reference to the Indian context.
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**N. B. : All questions are compulsory.**

1. (A) Fill in the blanks :—

- (i) Weighting of silk is a \_\_\_\_\_ finish.
- (ii) Synthetic fibers can be spun by \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_ spinning process.
- (iii) New innovation in weaving includes \_\_\_\_\_ weaving and \_\_\_\_\_ weaving.
- (iv) The four P's of marketing are \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_.
- (v) Ikats from Gujarat and Orissa are called \_\_\_\_\_ and \_\_\_\_\_ respectively.

40  
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(B) Complete the following sentences :—

- (i) Gender constancy means \_\_\_\_\_.
- (ii) Morphological structure of cotton fiber consists of \_\_\_\_\_.
- (iii) On the basis of the life of a finish, finishes can be classified as \_\_\_\_\_.
- (iv) Personality means \_\_\_\_\_.

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(C) Match the following :—

(i)

- |                          |              |
|--------------------------|--------------|
| (a) Plain Weave          | 1. Swivel    |
| (b) Fancy Weave          | 2. Basket    |
| (c) Surface Figure Weave | 3. Sateen    |
| (d) Warp floats          | 4. Jacquard. |

(ii)

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|----------------------------|----------------------|
| (a) Impact Tester          | 1. Uster Tester      |
| (b) Yarn Tester            | 2. Instron           |
| (c) Strain Gauge Principle | 3. Stellometer       |
| (d) Pendulum Principle     | 4. Ballastic Tester. |

(iii)

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|---------------------|----------------|
| (a) Vinyl Fibers    | 1. Elastomeric |
| (b) Amide Fibers    | 2. Nomex       |
| (c) Urethane Fibers | 3. Modacrylic  |
| (d) Aromatic Nylon  | 4. Nylon 6.    |

(iv)

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|-----------------|---------------------|
| (a) Chamba      | 1. Kashmir          |
| (b) Kasuti      | 2. Uttar Pradesh    |
| (c) Kashida     | 3. Himachal Pradesh |
| (d) Chickankari | 4. Karnataka.       |

(v)

- |            |           |
|------------|-----------|
| (a) Scroop | 1. Wool   |
| (b) Suint  | 2. Jute   |
| (c) Tossa  | 3. Cotton |
| (d) Twist  | 4. Silk.  |

(D) Give the full form of —

- (i) OBA
- (ii) DMEU
- (iii) TRO
- (iv) MLR.

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