

Question Booklet No.

*(To be filled up by the candidate by blue/black ball-point pen)*Roll No.

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Roll No. (Write the digits in words)

Serial No. of OMR Answer Sheet

Day and Date

(Signature of Invigilator)**INSTRUCTIONS TO CANDIDATES***(Use only blue/black ball-point pen in the space above and on both sides of the Answer Sheet)*

1. Within 10 minutes of the issue of the Question Booklet, Please ensure that you have got the correct booklet and it contains all the pages in correct sequence and no page/question is missing. In case of faulty Question Booklet, bring it to the notice of the Superintendent/Invigilators immediately to obtain a fresh Question Booklet.
2. Do not bring any loose paper, written or blank, inside the Examination Hall *except the Admit Card without its envelope.*
3. *A separate Answer Sheet is given. It should not be folded or mutilated. A second Answer Sheet shall not be provided.*
4. Write your Roll Number and Serial Number of the Answer Sheet by pen in the space provided above.
5. *On the front page of the Answer Sheet, write by pen your Roll Number in the space provided at the top, and by darkening the circles at the bottom. Also, wherever applicable, write the Question Booklet Number and the Set Number in appropriate places.*
6. *No overwriting is allowed in the entries of Roll No., Question Booklet No. and Set No. (if any) on OMR sheet and Roll No. and OMR sheet No. on the Question Booklet.*
7. *Any changes in the aforesaid-entries is to be verified by the invigilator, otherwise it will be taken as unfair means.*
8. *This Booklet contains 40 multiple choice questions followed by 10 short answer questions. For each MCQ, you are to record the correct option on the Answer Sheet by darkening the appropriate circle in the corresponding row of the Answer Sheet, by pen as mentioned in the guidelines given on the first page of the Answer Sheet. For answering any five short Answer Questions use five Blank pages attached at the end of this Question Booklet.*
9. For each question, darken only one circle on the Answer Sheet. If you darken more than one circle or darken a circle partially, the answer will be treated as incorrect.
10. *Note that the answer once filled in ink cannot be changed. If you do not wish to attempt a question, leave all the circles in the corresponding row blank (such question will be awarded zero marks).*
11. For rough work, use the inner back page of the title cover and the blank page at the end of this Booklet.
12. Deposit *both OMR Answer Sheet and Question Booklet* at the end of the Test.
13. You are not permitted to leave the Examination Hall until the end of the Test.
14. If a candidate attempts to use any form of unfair means, he/she shall be liable to such punishment as the University may determine and impose on him/her.

Total No. of Printed Pages : 15

FOR ROUGH WORK

Research Entrance Test – 2014

No. of Questions : 50

Time : 2 Hours

Full Marks : 200

- Note :* (i) This Question Booklet contains **40** Multiple Choice Questions followed by **10** Short Answer Questions.
- (ii) Attempt as many MCQs as you can. Each MCQ carries **3 (Three)** marks. **1 (One)** mark will be deducted for each incorrect answer. Zero mark will be awarded for each unattempted question. If more than **one** alternative answers of MCQs seem to be approximate to the correct answer, choose the closest one.
- (iii) Answer only **5** Short Answer Questions. Each question carries **16 (Sixteen)** marks and should be answered in **150-200** words. Blank **5 (Five)** pages attached with this booklet shall only be used for the purpose. Answer each question on separate page, after writing Question No.

1. Which of the following is *not* a greenhouse gas ?
(1) Carbon dioxide (2) Methane
(3) Sulphur dioxide (4) Nitrogen
2. The saliva of mammals contains starch splitting enzyme. The name of that enzyme is :
(1) Amylase (Ptyalin) (2) Secretin
(3) Lysozyme (4) Mucin
3. Cytosine in DNA combines with :
(1) Adenosine (2) Uracil (3) Guanine (4) Thiamine
4. If Vectors $2i - j + k$, $i + 2j - 3k$, $3i + \lambda j + 5k$ are coplanar, then the value of λ is :
(1) -2 (2) -3 (3) -4 (4) -5
5. The value of $(-1 + i\sqrt{3})^{3/2}$ is :
(1) $\sqrt{2}$ (2) $2\sqrt{2}$ (3) $2 + \sqrt{2}$ (4) $2 - \sqrt{2}$
6. The number of electrons contained in 1 Coulomb of charge equals to :
(1) 6.25×10^{17} (2) 6.25×10^{18} (3) 6.25×10^{19} (4) 1.6×10^{19}
7. A unit mass of solid is converted to liquid at its melting ; the heat required for this process is the :
(1) Specific heat (2) Latent heat of vaporization
(3) Latent heat of fusion (4) External latent heat
8. Granite is :
(1) a sedimentary rock (2) a metamorphic rock
(3) a volcanic rock (4) a plutonic igneous rock
9. Coal is a :
(1) Sedimentary rock (2) Hydrothermal deposit
(3) Low-grade metamorphic rock (4) High-grade metamorphic rock
10. Which one of the following gases is present in the stratosphere that filters out some of the sun's ultraviolet light and provides an effective shield against radiation damage to living things ?
(1) Oxygen (2) Methane (3) Ozone (4) Helium

11. Which one of the following theories holds that aggression is a part of personality ?
- (1) Instinct theory (2) Trait theory
(3) Situational theory (4) Social learning theory
12. Which of the following is **NOT** implied by the concept of 'observational learning' proposed by social learning theorists ?
- (1) learning involves imitation and identification
(2) learning can take place merely by observation
(3) learning can take place without reinforcement
(4) learning involves presence of a model
13. Beliefs, which represent the cognitive component of prejudice, are called :
- (1) Categorization (2) Stereotypes (3) Ideosyncrasies (4) Schemata
14. Visual and verbal information are represented in the form of abstract propositions about objects and their relationships. This idea is the central theme of which of the following hypotheses ?
- (1) Conceptual proposition hypothesis (2) Dual encoding hypothesis
(3) Functional equivalency hypothesis (4) Transformational hypothesis
15. Logotherapy is based on which of the following approaches ?
- (1) Psychoanalytic approach (2) Existential approach
(3) Humanistic approach (4) Behavioural approach
16. Feeling that there are too many people in a room is called :
- (1) Population (2) Density (3) Loss of control (4) Crowding
17. Which one of the following statements is **not true** about memory ?
- (1) Short-term memory capacity is limited
(2) Memory is susceptible to change
(3) Eye witness memory is highly credible
(4) Semantic coding is a dominant feature of long-term memory

18. Which one of the following fissures divides the cerebrum into two cerebral hemispheres ?
- (1) Transverse fissure (2) Medieval longitudinal fissure
 (3) Central fissure (4) Lateral fissure
19. Which of the following sampling methods is the non-probability equivalent of Stratified Random Sampling method ?
- (1) Cluster sampling (2) Purposive sampling
 (3) Snowball sampling (4) Quota sampling
20. Which personality theorist proposed the concepts of 'source' and 'surface' traits of personality on the basis of the 'factor analytic' technique ?
- (1) Hans J. Eysenck (2) Raymond B. Cattell
 (3) Gordon W. Allport (4) Robert R. McCrae
21. The onset of the movement of hands for 'reaching an object and grasping it' takes place normally at which age of development ?
- (1) 3 months (2) 6 months (3) 1 year (4) 9 months
22. Which of the following is *NOT* an acceptable goal for counselling ?
- (1) Enhancing personal effectiveness of the counsellee
 (2) Counsellor's giving solutions to counsellee's problems
 (3) Enhancing mental health of counsellee
 (4) Helping counsellee to learn effective decision making strategies
23. Which of the following statistical procedure is most appropriate when groups of highly intercorrelated variables are to be identified ?
- (1) Analysis of Variance (2) Discriminant Function Analysis
 (3) Factor Analysis (4) Multiple Regression Analysis
24. According to which approach of counselling, 'creation of an acceptant atmosphere by the counsellor', is considered most essential for effective counselling ?
- (1) Behavioural (2) Existential (3) Client-Centered (4) Psychoanalytic

25. Which of the following is *NOT* a characteristic feature of 'puberty' ?
- (1) Rapid growth and change (2) Age of onset being variable
(3) Being a long period (4) Divided into stages
26. In computation of Analysis of Variance, if value of the error variance increases, what would be the effect on 'F-Value' ?
- (1) It will increase (2) It will decrease
(3) It will not change (4) Its significance will increase
27. The term 'cathexis' in psychoanalysis means :
- (1) Release of libidinal energy
(2) Release of pent-up emotions
(3) Investment of libidinal energy into some object
(4) Release of unconscious conflicts
28. Which of the following techniques is used to compare the findings of different studies that use the same dependent variable ?
- (1) MANOVA (2) Meta analysis (3) Ancova (4) Factor analysis
29. Obsessive – Compulsive Disorder is *NOT* thought to play a role in which of the following cognitive constructs ?
- (1) Intolerance of uncertainty (2) Beliefs about inflated responsibility
(3) Underestimation of personal ability (4) Control of thoughts
30. Which one of the following techniques permits investigators to measure the metabolic activity in various parts of the brain ?
- (1) Electroencephalography (EEG)
(2) Magnetic Resonance Imaging (MRI)
(3) Positron Emission Tomography (PET)
(4) Computerized Axial Tomography (CAT)
31. The Minnesota Multiphasic Personality Inventory was developed using which of the following methods ?
- (1) Factor analysis (2) Item-total correlation analysis
(3) Squared multiple correlation (4) Empirical keying

32. Which one of the following is *NOT* a core component of the job characteristic model of job design ?
- (1) Power/authority (2) Autonomy
(3) Skill variety (4) Task identity
33. The power, which makes one able to inflict punishment or aversive consequences, is referred to as :
- (1) Legitimate power (2) Coercive power
(3) Referent power (4) Reward power
34. Which of the following most accurately describes the meaning of multivariate statistics ?
- (1) A set of variables are combined together as composite variable in the process of analysis
(2) The number of independent variables is two or more
(3) The number of dependent variables is two or more
(4) The number of independent as well as dependent variables is two or more
35. The CPI is a composite score of the WAIS-IV that is based on :
- (1) Working memory and processing speed indices
(2) Verbal comprehension and perceptual reasoning indices
(3) All the four indices
(4) All the 15 subtests
36. Which of the following is *NOT* a characteristic of stress ?
- (1) It is a deviant state of the person
(2) It is an adaptive response to some external situation
(3) It is a nervous tension
(4) It arises from interaction between person and situation
37. Which statistical method is used to compute the correlation of a set of independent variables with a set of dependent variables ?
- (1) Multiple Correlation (2) Multivariate multiple correlation
(3) Product moment correlation (4) Canonical correlation

38. The diagnosis of 'depression with anxiety' is permitted in which of the following classification systems ?
(1) ICD-10 (2) DSM-IV (3) DSM-IV – TR (4) DSM – III
39. Rorschach Inkblot Test was originally designed to identify which of the following :
(1) Unconscious motives (2) Artistic ability
(3) Schizophrenia (4) Jungian psychological types
40. Validity is defined as which of the following proportions
(1) Proportion of true variance to total variance
(2) Proportion of error variance to total variance
(3) Proportion of common variance to total variance
(4) Proportion of specific variance to total variance

Attempt any five questions. Write answer in 150-200 words. Each question carries 16 marks. Answer each question on separate page, after writing Question Number.

1. How is applied social psychology different from social psychology ? Discuss.
2. Discuss the effects of hormones secreted by the pancreas.
3. Present a critical evaluation of the 'filter theory' of attention.
4. Critically evaluate the cognitive resource model of leadership.
5. Describe two major aspects of reliability and discuss the generalizability theory of reliability.
6. Briefly describe the various axes of the DSM – IV-TR.
7. What is meant by psychological assessment ? How does it differ from evaluation and test ? Explain.
8. Present a brief account of the structure of personality as proposed by Freud in psychoanalytical theory.
9. Describe the hazards whose occurrence during the prenatal period may affect the eventual development of a child.
10. Outline the characteristic features of the Factorial Design along with its merits and limitations.

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FOR ROUGH WORK

