Annexure-A

OBJECTIVE TEST PAPER (Part-A)

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<th>2014-15</th>
<th>Faculty</th>
<th>Social Sciences</th>
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<td>ADMISSION TEST</td>
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<tr>
<td>Ph.D./M.Phil.</td>
<td>Paper Code</td>
<td>910</td>
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PARTICULARS TO BE FILLED IN BY THE CANDIDATE

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<tr>
<th>Name of the Candidate</th>
<th>Roll Number</th>
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Signature of the Candidate

For Invigilator:
The candidate has completed all entries given above and in the relevant columns of the OMR Answer Sheet and his/her identity has been verified.

Signature with date

Time (Test Duration): 02 hours
Maximum Marks: 70
(Part-A & Part-B)

INSTRUCTIONS

- Complete all entries on the cover page and put your signature in the space provided.
- Use only Ball Point Pen (Black/Blue) for making entries in the Question Booklet and the OMR Answer Sheet.
- Candidates should also read carefully the instructions printed on the Admittance Card and the OMR Answer Sheet before attempting to answer the questions.
- The Test Booklet consists of 13 pages (excluding cover sheet) and contains 70 questions. Count the number of pages and questions before attempting the questions. Discrepancy, if any, must immediately be brought to the notice of the invigilator.
- All questions are compulsory.

1. The Time (Test duration) as specified above shall be reckoned from the moment of distribution of the Question Booklet.
2. Blank space in the Question Booklet may be used for rough work.
3. Each question is followed by four alternative answers. Select only one answer, which you consider as the most appropriate. Shade the relevant circle against the corresponding questions number on the OMR, Answer Sheet.
4. There will be no negative marking in the evaluation of either section.
5. Answer should ONLY be marked on the OMR Answer Sheet. No answer should be written on the Question Booklet.
6. The candidate shall hand over the OMR Answer Sheet to the Invigilator before leaving his/her seat.
Part-A

1. Resting membrane potential in a nerve fire is:
   (a) 40 mV
   (b) –40 mV
   (c) 11 mV
   (d) –70 mV

2. An attribute has a:
   (a) Gradient classification
   (b) Non-gradient classification
   (c) Objective classification
   (d) both ‘b’ & ‘c’

3. Variability is low in:
   (a) Homogeneous group
   (b) Heterogeneous group
   (c) Small Sample
   (d) Large Sample

4. Normal curve is:
   (a) Bell shaped
   (b) Asymptotic
   (c) Bilaterally symmetrical
   (d) All of the above

5. Z-scores are expressed in terms of:
   (a) SD distance from mean
   (b) Coefficient variable of mean
   (c) Mean deviation
   (d) Percentile scores

6. The reliability of mean is directly proportional to:
   (a) SD of population
   (b) Mean deviation of population
   (c) Heterogeneity of population
   (d) Sample size

7. Error in statistics arises due to:
   (a) Error of origin
   (b) Error of subject matter
   (c) Error of stability
   (d) All of the above
8. Absolute value of components converted to degree of angle in circle:
   (a) Pie diagram
   (b) Deviation diagram
   (c) Three dimensional diagram
   (d) both ‘a’ & ‘c’

9. Formula for finding mode is:
   (a) Mode = 3 median – 2 mean
   (b) Mode = 3 mean – 2 median
   (c) Mode = 3 mean – 2 median/N
   (d) Mode = 3 median – 2 mean/N

10. Statistics applied on nominal data is:
    (a) Non-Parametric
    (b) Parametric
    (c) Conventional
    (d) Tetra metric

11. Eta correlation is used when data is:
    (a) Related linearly
    (b) Curvilinearly Related
    (c) Rank difference
    (d) Depicted on pie-graph

12. One tail test is used:
    (a) To assess significant difference in mean
    (b) To assess ascendancy of means
    (c) To assess relationship in mean
    (d) To assess variability in means

13. Consistency in test results is measured through:
    (a) Reliability
    (b) Objectivity
    (c) Split half method
    (d) All of the above

14. Test for minimal strength is:
    (a) Kraus-Weber
    (b) Indiana motor test
    (c) JCR
    (d) IOWA strength index
15. Troponin molecule is found in:
   (a) Myosin filament
   (b) Sarcoplasmic reticulum
   (c) Actin filament
   (d) T-tubule

16. The amount of ATP produced through lactic acid system in our body at a time:
   (a) 3 moles
   (b) 38 moles
   (c) 1.2 moles
   (d) 39 moles

17. Type II error is:
   (a) Rejection of true hypothesis
   (b) Acceptance of false hypothesis
   (c) Power of test
   (d) Both ‘b’ & ‘c’

18. Level of significance is a line:
   (a) Below which null hypothesis is untenable
   (b) Below which null hypothesis is tenable
   (c) Chances of type-1 error
   (d) Both ‘a’ & ‘c’

19. Tournament ranking is a method for establishing:
   (a) Validity
   (b) Reliability
   (c) Objectivity
   (d) None of the above

20. Criterion reference test:
   (a) Encourage convergent thinking
   (b) Encourage divergent thinking
   (c) Reflect individual difference
   (d) Both ‘b’ & ‘c’

21. Progressive relaxation is best for:
   (a) Coping somatic anxiety
   (b) Trait anxiety
22. Self esteem creates:
(a) Intrinsic motivation
(b) Extrinsic motivation
(c) Sensory perception inputs
(d) Ego centric introspection

23. Throndike propagated:
(a) Laws of learning
(b) Condition reflex theory
(c) Reinforcement theory
(d) Both ‘b’ & ‘c’

24. Primary motives are:
(a) Inborn
(b) Unlearned
(c) Inherent
(d) All of the above

25. Categorization of aggression into retaliatory aggression and instrumental aggression was given by:
(a) Cratty
(b) Dollard and associates
(c) Kenard Lorez
(d) Jeen Piagot

26. Concept of reciprocal determination was proposed by:
(a) Albert Bandura
(b) Skinner
(c) Freud Sigmund
(d) Pavlov

27. William James is associated with:
(a) Stream of consciousness
(b) Meta-cognition
(c) Re-Capitulation
(d) Both ‘a’ & ‘b’

28. Idiographic approach for trait is given by:
(a) Golden Allport
(b) Raymond
29. Relative slenderness of physique is assessed in:
   (a) Ectomorphy
   (b) Mesomorphy
   (c) Endomorphy
   (d) All of these

30. Goniometer measures:
   (a) Range of movement
   (b) Flexibility
   (c) Curvature of spines
   (d) both ‘a’ & ‘b’

31. Data in its original form is known as:
   (a) Raw data
   (b) Discrete data
   (c) Spatial series
   (d) Both ‘a’ & ‘c’

32. Effects of extreme scores on central tendency is eliminated in:
   (a) Median
   (b) Mean
   (c) Mode
   (d) Mean deviation

33. Centre of gravity determines:
   (a) Stability
   (b) Equilibrium
   (c) Vertical distance in high jump
   (d) All of the above

34. The pathway of impulse in a nerve cell is:
   (a) From axon to cell body
   (b) From axon to dendrites
   (c) From dendrites to axon terminals
   (d) From cell body to dendrites and axon terminals

35. Gastro-cenemius is best developed through:
   (a) Calf raise
   (b) Half squats
36. Forward and backward movement of neck is an example of:
   (a) Class 1 lever
   (b) Class 2 lever
   (c) Class 3 lever
   (d) Both ‘a’ & ‘b’

37. Range of projectile is:
   (a) \( \frac{V^2 \sin 2\theta}{g} \)
   (b) \( \frac{V^3 \sin 2\theta}{g} \)
   (c) \( \frac{V^2 \sin 3\theta}{2g} \)
   (d) \( \frac{V^2 \sin 3\theta}{g} \)

38. Arthrology is a study of:
   (a) Joints
   (b) Brain
   (c) Movement metrics
   (d) Heart and aorta

39. Maximum distance is achieved when the angle of projection is:
   (a) 45°
   (b) 40°
   (c) 30°
   (d) 55°

40. Curriculum should be:
   (a) Activity centered
   (b) Organization centered
   (c) Child centered
   (d) All of the above

41. The most important component of good administration is:
   (a) Interpersonal relationship
   (b) Authority to control
(c) leadership quality
(d) Clarity in objectives

42. Ectomorphy in Heath-Carter method is determined by using:

(a) \( \text{HWR} = \frac{\text{Height (cm)}}{3\sqrt{\text{weight (kg)}}} \)

(b) \( \text{HWR} = \frac{\text{Weight (kg)}}{3\sqrt{\text{height (cm)}}} \)

(c) \( \text{HWR} = \frac{\text{Height}^2 (\text{cm})}{3\sqrt{\text{weight (kg)}}} \)

(d) \( \text{HWR} = \frac{\text{Weight}^2 (\text{kg})}{3\sqrt{\text{height (kg)}}} \)

43. The main difference in physical education and education is of:
(a) Purpose
(b) Objectives
(c) Methodology
(d) Outcome

44. Variation pace method is:
(a) Fart Lek
(b) Interval Training
(c) Intermittent training
(d) All of the above

45. Altitude training is undertaken to develop:
(a) Speed
(b) Endurance
(c) Strength
(d) All of the above

46. Meso cycle is of:
(a) 4 to 6 weeks
(b) 1 to 2 week
(c) 3 months
(d) 6 months

47. Epinephrine is a:
(a) Excitatory chemical transmitter
(b) Inhibitory chemical transmitter
(c) Neural hormone
(d) Both ‘a’ & ‘c’

48. Gaseous exchange takes place in:
   (a) Arteries
   (b) Arterioles
   (c) Capillaries
   (d) All of the above

49. Muscles fibers which need a long term training programme for development:
   (a) ST-fibers
   (b) FTα-fibers
   (c) FTβ-fibers
   (d) FTc-fibers

50. Acceleration due to gravity is:
   (a) 9.81 m²/sec.
   (b) 9.00 m²/sec.
   (c) 9.51 m²/sec.
   (d) 9.41 m²/sec.
CODING SHEET

M.Phil./Ph.D. (Part-B)
Paper Code: 910

NOTE
Candidate is required to write his particulars on this Coding Sheet Only and not on Test Booklet. The invigilator shall check all the entries made by the candidate and append his signature below.

Roll No.: ____________________________
Name of the Candidate: ______________________________
Name of the Faculty: ________________________________
Name of the Department: ____________________________
Name of the Centre: ________________________________
Centre Code: ________________________________
Date of the Test: ________________________________
Signature of the Candidate: ______________________________

FOR INVIGILATOR ONLY:

Roll No. of the candidate: ____________________________

Signature of the Invigilator
Descriptive Test Paper (Part-B)
M.Phil./Ph.D.
Paper Code: 910

Maximum Marks: 30

INSTRUCTIONS

- Complete all entries on the cover page and put your signature in the space provided.
- Candidate should not write his/her name, Roll Number or any other mark of identification in any part of the Test Booklet.
- Use only Ball point pen (black/blue) for answering the Question Booklet.

1. The Question Booklet consists of 02 Pages (excluding cover sheet) and contains 05 questions. Count the number of pages and questions before attempting the questions. Discrepancy, if any, must immediately be brought to the notice of the Invigilator.
2. All questions are compulsory and are to be answered in this Test Booklet in the space provided.
3. The Test Booklet must be handed over to the Invigilator before leaving the Admission Test Hall. No leaf should be torn off the Test Booklet.
4. Candidate appearing for this Admission Test have to abide by all the rules/instructions framed by the University in this respect from time to time. Violation of any these rules/instructions will lead to cancellation of his candidature.
5. The candidate resorting to unfair means shall be dealt with as per the University rules.
6. No request for re-evaluation/re-checking of the Answer Sheets/Answer Book will be entertained.

Marks Secure : __________________________________________________
Signature of Examiner : ___________________________________________
Date : ___________________________________________________________
Part-B

1. Describe Normal curve with its properties.
2. Define data and describe its various kinds.
3. Write down the factors affecting motor learning.
4. Explain the relevance of Newton’s laws of motion in sports.
5. Write down the Bio-chemical changes associates with long term exercises.