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(Pages : 2)

Name.....

Reg. No.....

**FIRST SEMESTER M.P.Ed. DEGREE (REGULAR) EXAMINATION
NOVEMBER 2020**

M.P.Ed.

MPEC 102—SPORTS AND EDUCATION TECHNOLOGY

(2020 Syllabus)

Time : Three Hours

Maximum : 70 Marks

Answer any three questions from part A and Question No. 7 and 8 in Part B are compulsory.

Part A

1. Discuss the advantages of Modern Technology in Sports.
2. Explain Nano Moulding Technology; Discuss the factors and application of Nano Technology in Sports.
3. Write a detailed note on the different types of materials used for the construction and installation of sports surfaces.
4. What is known as Protective Equipment in Sports ? Explain types, materials and advantages of Protective Equipment.
5. Explain mechanism and advantages of serving machine in Tennis and Volleyball.
6. Explain types, materials and advantages of modern clothing and shoes in sports.

(3 × 15 = 45 marks)

Part B

7. Answer any three of the following questions :
 - a) Write note on Technological Impacts on sports.
 - b) Describe General Principles of instrumentation in sports.
 - c) Explain advantages of Nano Technology in footwear production.
 - d) Explain technology used in the manufacture of modern play equipment.
 - e) Explain the methods of erecting flood light and measuring luminous.

(3 × 5 = 15 marks)

Turn over

8. Answer any *five* of the following questions

- a) Define Sports Technology.
- b) Nano glue.
- c) Open cell foam.
- d) Artificial turf.
- e) Nano technology.
- f) Bowling machine.
- g) Video coverage.
- h) SMA.

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(5 × 2 = 10 marks)

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**FIRST SEMESTER M.P.Ed. DEGREE (REGULAR) EXAMINATION
NOVEMBER 2020**

M.P.Ed.

MPEC 101—GENDER, DISABILITY AND INCLUSIVE SPORTS EDUCATION

(2020 Syllabus)

Time : Three Hours

Maximum : 70 Marks

Answer any three questions from Part A and question number 7 and 8 from Part B are

compulsory.

Part A

1. Define gender and gender equality. Explain the factors causing gender inequality in Education in India.
2. How do you perceive gender biasness in sports ? Describe a plan in order to overcome gender biasness in sports.
3. Explain the constitutional provisions to counter the gender inequality in education sector.
4. Explain the major differences between special education, integrated education and inclusive education.
5. Explain the role of society in implementing an inclusive sport policy.
6. Explain the strategies for overcoming social barriers to implement an inclusive sporting programme.

(3 × 15 = 45 marks)

Part B

7. Answer any *three* questions from the following :
 - a) Roots of gender construction in India.
 - b) Gender based access to Physical Education in India.
 - c) Major gender issues in sports.
 - d) Class and inequality in Indian society.
 - e) Creation of inclusive strategies and practices in Physical Education.

(3 × 5 = 15 marks)

Turn over

8. Briefly explain any *five* questions given below :

- a) Sports and inclusion.
- b) Measures for meeting diverse needs.
- c) Patriarchy in India.
- d) The global agenda for gender equality.
- e) The policy of equal opportunity.
- f) The concept of unisex.
- g) Gender roles in Indian society.
- h) UEE programme.

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(5 × 2 = 10 marks)

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**FIRST SEMESTER M.P.Ed. DEGREE (REGULAR) EXAMINATION
NOVEMBER 2020**

M.P.Ed.

MPCC 103—TESTS, MEASUREMENT AND EVALUATION IN PHYSICAL EDUCATION

(2020 Syllabus)

Time : Three Hours

Maximum : 70 Marks

Part A

Attend any three out of six questions.

All questions carry equal marks.

1. Elaborate the Skinfold Measurement of Triceps, Subscapular and Suprailiac.
2. Briefly explain Cowell Social Behavior Trend Index and Wasburn's Social Adjustment Inventory.
3. Write down any two physiological testing for anaerobic capacity.
4. Define Validity. Explain the criteria and factors affecting validity.
5. Explain in detail the importance of Test, Measurement and Evaluation in the field of games and sports.
6. What are the steps included in Construction of a Knowledge test.

(3 × 15 = 45 marks)

Part B

Question number 7 & 8 are Compulsory.

7. Write Short notes on any *three* of the following :
 - i) Mc.Cloys General Motor Ability Test.
 - ii) Define the steps of test construction and evaluation of a physical performance test.
 - iii) Cognitive and Affective domains of behavior.
 - iv) IOWA Posture test.
 - v) Any two scale to measure leadership and motivation.

(3 × 5 = 15 marks)

Turn over

8. Write Short notes on any *five* of the following :

- i) Define Test and Evaluation.
- ii) State the uses of Anthropometric Measurements.
- iii) Explain the Test Administration of Tuttle Pulse Ratio Test.
- iv) What do you mean by Somatotypes.
- v) Write the formula to calculate WHR and BMI.
- vi) Explain Rating Scale.
- vii) Define the Taxonomy of Educational Objectives.
- viii) Field markings for Knox Basketball Test.

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(5 × 2 = 10 marks)

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**FIRST SEMESTER M.P.Ed. DEGREE (REGULAR) EXAMINATION
NOVEMBER 2020**

M.P.Ed.

MPCC 102—APPLIED STATISTICS IN PHYSICAL EDUCATION AND SPORTS

(2020 Syllabus)

Time : Three Hours

Maximum : 70 Marks

Answer any three questions from Part A and question. No : seven and eight in Part B are

compulsory.

Part A

1. Explain the functions, importance and applications of Statistics in Physical Education.
2. Calculate the Arithmetic Mean from the following data :

Age (Years)	20–30	30–40	40–50	50–60	60–70	70–80
Frequency	10	15	27	23	14	11

3. Explain the concept of measures of central tendency and measures of dispersion. Also explain the uses of measures of central tendency and dispersion.
4. What are the different types of Diagrams ? Briefly explain their construction.
5. What are the properties of normal distribution ? Explain the importance of normal distribution in inferential statistics.
6. Calculate the correlation co-efficient between X and Y from the following data :

X	12	17	23	11	16	20	25	20
Y	15	20	25	15	20	22	25	22

(3 × 15 = 45 marks)

Part B

7. Answer *three* out of five questions :

- (a) Differentiate between nominal and ordinal data.
- (b) Explain the situation with an example where rank correlation is calculated.

Turn over

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- (c) Give the steps in testing a statistical hypothesis.
- (d) Distinguish between Sigma scale and Z scale.
- (e) What is the probability of getting the sum 2 when two dice are thrown at a time ?

(3 × 5 = 15 marks)

Write short notes on any *five* out of eight questions :

- (a) Give any *one* definition of statistics.
- (b) What is primary data ?
- (c) Define median.
- (d) What is sample space ?
- (e) What is type I error ?
- (f) Define probable error.
- (g) Define Skewness.
- (h) Define sample.

(5 × 2 = 10 marks)

**FIRST SEMESTER M.P.Ed. DEGREE (REGULAR) EXAMINATION
NOVEMBER 2020**

M.P.Ed.

**MPCC 101—RESEARCH PROCESS IN PHYSICAL EDUCATION AND SPORTS
SCIENCES**

(2020 Syllabus)

Time : Three Hours

Maximum : 70 Marks

*Answer any three questions from Part A and question No : seven and eight in Part B are compulsory.***Part A**

1. Define Research and explain need, nature and scope of research in Physical Education.
2. Explain Research Problem, Location of Research Problem, and Criteria for selection of a problem.
3. Explain probability method and non-probability methods of sampling.
4. Discuss the tools and techniques used for data collection.
5. Explain any three experimental group designs.
6. Explain the method of writing a research proposal.

(3 × 15 = 45 marks)

Part B

7. Answer any *three* out of five questions :
 - a) Ethical issues in research.
 - b) Definition and meaning of hypothesis.
 - c) Descriptive methods of research.
 - d) Primary data and Secondary data.
 - e) Meaning and types of variables.

(3 × 5 = 15 marks)

8. Write short notes on any *five* out of eight questions :
 - a) Classification of research.
 - b) Sources of literature.
 - c) Types of hypotheses.
 - d) Meta- Analysis.
 - e) Historical criticism.
 - f) Method of writing abstract.
 - g) APA and MLA style.
 - h) Bibliography writing.

(5 × 2 = 10 marks)

**FIRST SEMESTER M.P.Ed. DEGREE (SUPPLEMENTARY) EXAMINATION
NOVEMBER 2020**

M.P.Ed.

Paper III—MANAGEMENT IN PHYSICAL EDUCATION AND SPORTS

(2013 Syllabus Year)

Time : Three Hours

Maximum : 75 Marks

1. Fill in the blanks :

- (a) Distributing duties and responsibilities to sub-ordinates is called _____.
- (b) The _____ Court is marked in East West direction.
- (c) The process by which accounting and records are evaluated by experts is called _____.
- (d) Scheduled and formal visit by supervisors are called _____.
- (e) Adidas supplying the balls used in Football world cup is an example of Product marketing through _____.

(5 × 1 = 5 marks)

2. Write answers in *one word* :

- (a) Which managerial function is to employ and deploy persons at various positions ?
- (b) What is Human Skill ?
- (c) What is the name of rules for purchasing equipment ?
- (d) Write the term for acquiring and using latest tested brand ?
- (e) What is Income ?
- (f) Which register shows us the number of usable equipment available in Institution ?
- (g) Name the type of conference which is held between a supervisor and staff of institution.
- (h) What is the name for unscheduled visits ?
- (i) Which sports man is the Brand ambassador of "Hero Motocorp" ?
- (j) Swimming pools are set in which direction ?

(10 × 1 = 10 marks)

Turn over

3. Match the following :

Table A

- 1 Assessment of work and performance
- 2 Father Figure
- 3 Acoustics
- 4 Swimming pool
- 5 Conduct of tournament
- 6 Students presence in camp
- 7 Demonstration teaching
- 8 Techniques of supervision
- 9 Hima Das
- 10 P V Sindhu

Table B

- (a) Conference
- (b) Expenditure.
- (c) Attendance Register.
- (d) Brand ambassador-JBL.
- (e) Interpersonal role.
- (f) Echo effect.
- (g) Improves teachers' efficiency.
- (h) Brand ambassador-Adidas.
- (i) Evaluation.
- (j) Showers.

(10 × 1 = 10 marks)

4. State True or False :

- (A) Major Repair and maintenance of the play fields are done in off season.
- (B) Direct purchase from shops can be done for bulk purchases.
- (C) Sponsorship is a source of income for organizing tournaments.
- (D) Only sports products are marketed through sports.
- (E) Supervisors are highly experienced persons.

(5 × 1 = 5 marks)

5. Write briefly :

- (A) Draw a model stock register page.
- (B) Write briefly about Conferences under supervisory context.
- (C) Brief on Ideal Equipment room.

(3 × 5 = 15 marks)

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Write short notes on any *five* questions :

- (A) Write a short note on Sports Marketing.
- (B) What are the qualities of a Supervisor ?
- (C) Explain managerial skills.
- (D) How paly fields can be maintained ?
- (E) Throw light on safety measures to be followed in the swimming pool.
- (F) Why Budgeting is important ?
- (G) Write a note on stock register.
- (H) Write a short note on storing equipment.

(5 × 3 = 15 marks)

Answer any *one* :

- (A) Explain the guidelines to be followed in the construction and maintenance of Gymnasium.
- Or*
- (B) What qualities need to be rooted in a model Physical Education Teacher. Explain.

(1 × 15 = 15 marks)

**FIRST SEMESTER M.P.Ed. DEGREE (SUPPLEMENTARY) EXAMINATION
NOVEMBER 2020****M.P.Ed.****Paper II—TEST MEASUREMENT AND EVALUATION IN PHYSICAL EDUCATION****(2013 Syllabus Year)****Time : Three Hours****Maximum : 75 Marks***Answer all the questions.***I. Fill in the Blanks :**

- a) _____ is the size of wall target area in Brady Volleyball Test.
- b) _____ is an estimate of degree to which a test measures the factor or factors for which it was designed.
- c) _____, _____ are frequently used in physical education field to measure skills that are difficult to measure in the traditional manner.
- d) The objective of Chapman Ball Control test to measure the subjects ability to combine quickness in _____ and _____ movements needed to manipulate the stick with ability to control the force element when contacting the ball.
- e) In AAHPER Youth Fitness Test, _____ item only intended for girls.

(5 × 1 = 5 marks)**II. Write the answer in one or two words :**

- a) Queens college step test is used to measure.
- b) A technique for measuring the mass per unit volume of a living person's body.
- c) An instrument used to measure strength by recording force.
- d) Test to evaluate the flexibility of the lower back and posterior thighs.
- e) Device for measuring skinfold thickness.
- f) Ability to change direction of body of parts rapidly.
- g) A mathematical formula used to combine age, height and weight to predict excellence in the ability to perform a wide variety of motor tasks.
- h) Expand JCR test.

- i) The components tested in Barrow Motor Ability Test.
- j) A Tennis skill test consist of forehand, backhand, and service elements and its categorized according to beginning, advanced, and varsity levels.

(10 × 1 = 10 marks)

III. Match the following :

- | | |
|-------------------------------|-------------------------------------|
| 1. Skinfold caliper | a) 1RM test. |
| 2. Footprint angle | b) ZigZag Run. |
| 3. Chin-ups | c) Hockey. |
| 4. Mile walk/run | d) Subcutaneous fat and skin. |
| 5. YMCA physical fitness test | e) Standing broad jump. |
| 6. Maximum strength | f) Cardiorespiratory endurance. |
| 7. Explosive power | g) Upper body strength. |
| 8. French short serve test | h) Arch height. |
| 9. Chapman ball control test | i) Cycle ergometer submaximal test. |
| 10. Agility | j) Badminton. |

(10 × 1 = 10 marks)

IV. State true or false :

- a) AAHPERD Health Related Physical Fitness test included 4 items.
- b) JCR test includes, standing broad jump, chin-up and 100 yard shuttle run.
- c) In Harvard step test, the athlete steps up and down on the platform at a rate of 30 steps per minute (every two seconds) for 5 minutes or until exhaustion.
- d) French Short Serve test is a Tennis skill test.
- e) Knowledge tests are either essay or objective tests and either mastery or discrimination tests.

(5 × 1 = 5 marks)

V. Write Briefly :

- a) What is a posture assessment ?
- b) What are the test items in Barrow Motor Ability Test ?
- c) Meaning of terms- test, measurement and evaluation.

(3 × 5 = 15 marks)

VI. Write short notes on any *five* from the following :

- a) Steps in developing a sports skills test.
- b) Explain duties during and after testing.
- c) Development of rating scales.
- d) Define health and skill related physical fitness.
- e) Knox Basketball test.

VII. Answer any *one* of the following :

- a) Explain Henry-Fridal Field Hockey Test with suitable diagram.

Or

- b) Coopers 12 minutes' walk/run test.

(5 × 3 = 15 marks)

(1 × 15 = 15 marks)

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**FIRST SEMESTER M.P.Ed. DEGREE (SUPPLEMENTARY) EXAMINATION
NOVEMBER 2020**

M.P.Ed.

Paper I—RESEARCH METHODOLOGY AND STATISTICS IN PHYSICAL EDUCATION

(2013 Syllabus year)

Time : Three Hours

Maximum : 75 Marks

I. Fill in the blanks :

- (a) Degree to which a test or instrument measures what it purports to measure is known as _____.
- (b) First hand source of data in research is known as _____.
- (c) _____ is an example of a scoring scale.
- (d) _____ is an estimate of the variability of the scores of a group around the mean.
- (e) Study about an individual or an institution is known as _____.

(5 × 1 = 5 marks)

II. Write answers in *one word* :

- A Name the term used to denote the variability of the sampling distribution.
- B Name the method of study based on objective observations.
- C Name the most frequently used t test to determine whether two sample means differ reliably from each other.
- D Name the error for the rejection of the null hypothesis when the null hypothesis is true
- E Name the term for the anticipated outcome of a study.
- F Name the term for the statistical technique used to determine the relationship between two or more variables
- G Name the error for the acceptance of the null hypothesis when the null hypothesis is false
- H What is a critical evaluation of research on a particular topic known as ?
- I Name the type of research that attempts to describe the status of the study's focus.
- J Name the term for the limitation imposed by the researcher in the scope of the study.

(10 × 1 = 10 marks)

Turn over

III. Match the following :

Table A	Table B
1 Related group	(a) Correlation.
2 Pearson product moment	(b) Case study.
3 Kurtosis	(c) Sigma scale.
4 Research review	(d) Divergence from normality.
5 Scheffe's test	(e) Post hoc test.
6 Systematic	(f) SPSS.
7 Interview	(g) Experimental design.
8 Mean	(h) Character of research.
9 Scoring scale	(i) Secondary source.
10 Software	(j) Measure of central tendency.

(10 × 1 = 10 marks)

IV. State True or False :

- A Case study is a type of experimental research.
- B A typical thesis in physical education follows a five section format.
- C The group undergoing experimentation is known as experimental group.
- D Null hypothesis is deduced from theory or induced from empirical studies.
- E The generalizability of the results of a study is known as internal validity.

(5 × 1 = 5 marks)

V. Write briefly :

- A Define and explain the measures of central tendency.
- B Formulation and location of the research problem.
- C Bibliography.

(3 × 5 = 15 marks)

VI. Write short notes on any *five* questions :

- A Scoring scales.
- B Explain descriptive research.

- C Independent and dependent t test.
- D Definition and elements of a research proposal.
- E Explain research hypothesis with examples.
- F Computer application in physical education and sports.
- G Explain the tools employed in survey studies.
- H Experimental groups.

VII. Answer any *one* :

- A Explain the types of research with suitable examples.

Or

- B Define a normal curve and explain the properties, principles and application of a normal curve.

(5 × 3 = 15 marks)

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(1 × 15 = 15 marks)

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