

Itemcode : **MP1001**

Q1: The half-life of radioactive iodine-131 is 8.0 days. How many iodine nuclei are necessary to produce an activity of 2.0 micro-Ci?

- | | |
|----------|-----------------------|
| A | 8.54X10 ⁵ |
| B | 7.38X10 ¹⁰ |
| C | 2.05X10 ⁷ |
| D | 1.23X10 ⁹ |

Correct Ans: **B**

Itemcode : **MP1002**

Q2: The binding energy per nucleon

- | | |
|----------|--|
| A | increases steadily as we go to heavier elements. |
| B | decreases steadily as we go to heavier elements. |
| C | is approximately constant throughout the periodic table, except for very light nuclei. |
| D | has a maximum near iron in the periodic table. |

Correct Ans: **D**

Itemcode : **MP1003**

Q3: A radioactive sample has a half-life of 20 min. The fraction of the sample left after one hour is

- | | |
|----------|------|
| A | 1/2 |
| B | 1/4 |
| C | 1/8 |
| D | 1/16 |

Correct Ans: **C**

Itemcode : **MP1004**

Q4: Two atoms of the same element having different number of neutrons in their nuclei are called

- | | |
|----------|----------|
| A | Isomers |
| B | Isobars |
| C | Isotones |
| D | Isotopes |

Correct Ans: **D**

Itemcode : **MP1005**

Q5: The isotope that would be effectively shielded by a plastic syringe is

- | | |
|----------|-------|
| A | Ga-67 |
| B | P-32 |

C	Tc-99m
D	Kr-81m
Correct Ans: B	

<u>Itemcode</u> : MP1006	
Q6: In the event of spill of a radiopharmaceutical, the first priority is to:	
A	call the housekeeping personnel for cleaning
B	immediately call the Radiation safety Officer
C	pour a chelating solution over the area of the spill
D	cover the area with absorbent paper and restrict access around it
Correct Ans: D	

<u>Itemcode</u> : MP1007	
Q7: A patient is surveyed and was found to emit 2mR/hr at bedside, the best possible way to decrease radiation exposure is to	
A	have the patient wear lead aprons
B	keep the patient well hydrated and encourage frequent voiding
C	have the visitor sit or stand as far as possible from bedside
D	have the visitor wear lead shielding
Correct Ans: C	

<u>Itemcode</u> : MP1008	
Q8: C/kg is the unit of	
A	Absorbed dose
B	Activity
C	Exposure
D	Dose equivalent
Correct Ans: C	

<u>Itemcode</u> : MP1009	
Q9: The measure of central tendency most affected by extreme values is	
A	Median
B	Mean
C	Mode
D	Inter-Quartile Range
Correct Ans: B	

<u>Itemcode</u> : MP1010	
Q10: A hypothesis testing is conducted and the P-value was found to be 0.0212. In order to reject the null hypothesis, the level of the test (α) must be:	

A	≥ 0.0212
B	> 0.0212
C	< 0.0212
D	≤ 0.0212
Correct Ans: A	

Itemcode : **MP1011**
Q11: The ratio of the radiation loss with the ionization loss for 1 MeV beta-particles in Pb is

A	1.03×10^{-1}
B	1.03×10^{-2}
C	1.03×10^1
D	1.03×10^2
Correct Ans: A	

Itemcode : **MP1012**
Q12: The value of beta energy for which the radiation loss and ionization loss are equal in Pb

A	5.75 MeV
B	9.75 MeV
C	10.75 MeV
D	20.00 MeV
Correct Ans: B	

Itemcode : **MP1013**
Q13: The maximum energy of the Compton recoil electrons resulting from the absorption in Al of 2.19 MeV gamma rays is

A	1.961 MeV
B	1.619 MeV
C	1.691 MeV
D	1.916 MeV
Correct Ans: A	

Itemcode : **MP1014**
Q14: The number of ion pairs produced in proportional counter by a 20 MeV proton if the counter size and pressure are large enough for all the protons energy to be absorbed.

A	5.71×10^5
B	5.17×10^5
C	2.86×10^5
D	

3.78 x 10⁵

Correct Ans: **A**

Itemcode : **MP1015**

Q15: A Geiger –Muller counter has a plateau slope of 3% per 100 Volts. If the operative point is at 1100 Volts, the maximum permissible voltage fluctuation (if the counting is not to be affected by more than 0.1%) is equal to

- A** 3 volts
- B** 2.3 volts
- C** 3.3 volts
- D** 4.3 volts

Correct Ans: **C**

Itemcode : **MP1016**

Q16: A 4.00 mg of radioactive sample having half-life 5.0 days and the average energy of the beta-particles emitted is 0.34 MeV. The rate of energy emitted from the sample is

- A** 1 watt
- B** 2 watt
- C** 0.5 watt
- D** 3 watt

Correct Ans: **A**

Itemcode : **MP1017**

Q17: The linearity of a dose calibrator should be measured?

- A** Weekly
- B** Monthly
- C** Annually
- D** Quarterly

Correct Ans: **D**

Itemcode : **MP1018**

Q18: If there was sudden power failure, which of the following quality control tests should be performed on a dose calibrator

- A** No quality control check is required if routine quality control test was performed in the last 24 hours
- B** Linearity
- C** Geometry
- D** Constancy

Correct Ans: **D**

Itemcode : **MP1019**

Q19: The ----- artifacts are created in tomographic images as result of nonuniformities.

- A** Irregular

B	Dropout
C	Circular
D	Linear
Correct Ans: C	

<u>Itemcode</u> : MP1020	
Q20: A 20% pulse height analyser window width will detect 99mTc gamma rays with energies:	
A	140 keV only
B	Between 135 and 145 keV
C	Between 120 and 140 keV
D	Between 126 and 154 keV
Correct Ans: D	

<u>Itemcode</u> : MP1021	
Q21: Regarding Anger cameras, all of the following are true except:	
A	Resolution increases with the number of photomultiplier tubes per unit area.
B	Resolution increases with increasing collimator thickness.
C	Resolution with a parallel hole collimator increases with decreasing hole diameter.
D	High-energy collimators have higher efficiency than low-energy collimators.
Correct Ans: D	

<u>Itemcode</u> : MP1022	
Q22: In nuclear medicine imaging, Photopeak window of the pulse height analyser is checked	
A	Daily
B	Weekly
C	Monthly
D	Annually
Correct Ans: A	

<u>Itemcode</u> : MP1023	
Q23: In nuclear medicine imaging, the COR (centre of Rotation) should be calibrated	
A	Daily
B	Weekly
C	Monthly
D	Annually
Correct Ans: B	

<u>Itemcode</u> : MP1024	
Q24: The maximum acceptable uncorrected error in the COR (centre of Rotation) is	

A	0.5 pixels
B	pixels
C	2.0 pixels
D	0.05 pixels
Correct Ans: A	

<u>Itemcode</u> : MP1025	
Q25: In nuclear medicine imaging, multiple-window registration of gamma camera should be checked	
A	Daily
B	Weekly
C	Monthly
D	Annually
Correct Ans: D	

<u>Itemcode</u> : MP1026	
Q26: Typically the best reported intrinsic resolution (FWHM) of a gamma camera is:	
A	0.1 mm
B	0.2 mm
C	1.0 mm
D	2.0 mm
Correct Ans: S (S Denotes question scrapped and no credit to Candidates.)	

<u>Itemcode</u> : MP1027	
Q27: What is the mean energy transferred during an ionization process?	
A	14 e V
B	35 e V
C	47 e V
D	54 e V
Correct Ans: B	

<u>Itemcode</u> : MP1028	
Q28: Which of the following is not an early somatic effect induced by exposure to low LET radiation?	
A	Epilation
B	Erythema
C	Cataract
D	Leukemia
Correct Ans: D	

<u>Itemcode</u> : MP1029	
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Q29: While designing a protective barrier, the amount of attenuation necessary depends upon

- A** Only on workload
- B** Only on use factor
- C** Only on distance
- D** Workload, use factor and distance

Correct Ans: **D**

Itemcode : **MP1030**

Q30: What is the occupancy factor in case of occasional occupancy?

- A** 1/4
- B** 1/16
- C** 1/12
- D** 1/8

Correct Ans: **B**

Itemcode : **MP1031**

Q31: Type of radioactive transport package designed to withstand both normal and accidental condition is?

- A** Type 'A' package
- B** Excepted package
- C** Type 'B' package
- D** Industrial package

Correct Ans: **C**

Itemcode : **MP1032**

Q32: Which volume of interest takes into account the physiological organ movement according to ICRU report 62?

- A** GTV
- B** PTV
- C** IM (Internal margin)
- D** CTV

Correct Ans: **C**

Itemcode : **MP1033**

Q33: The term CHART stands for

- A** Continuous hypo-fractionated altered radio therapy
- B** Conformal hyper-fractionated accelerated radio therapy
- C** Continuous hyper-fractionated accelerated radio therapy
- D** Conformal hypo-fractionated altered radio therapy

Correct Ans: **C**

Itemcode : **MP1034**

Q34: Which of the following part enables synchronized injection of electrons and microwaves into an accelerator tube?

A Klystron

B Electron gun

C Magnetron

D Modulator

Correct Ans: **D**

Itemcode : **MP1035**

Q35: Which is responsible for emission of light from the TLDs after heating?

A electrons in Conduction band

B electrons in Valence band

C Trapped electrons in forbidden band

D Both electrons in Conduction band and electrons in Valence band

Correct Ans: **C**

Itemcode : **MP1036**

Q36: Which of the following is not correct for HVL?

A It depends on the energy of incoming photons

B The unit of HVL is kV

C The second HVL is thicker than the first HVL

D It depends on the absorbent material

Correct Ans: **B**

Itemcode : **MP1037**

Q37: The decrease in radiation intensity inversely with the square of distance from the source is called

A Backscatter factor

B Penumbra

C Tissue-air ratio

D Inverse square law

Correct Ans: **D**

Itemcode : **MP1038**

Q38: Which of the following is not correct for the scatter-air ratio (SAR)?

A It is dependent on the Source to surface distance

B It is used for calculating the mean scattered dose

C It is dependent on depth

D	It is dependent on energy
Correct Ans: A	

<u>Itemcode</u> : MP1039	
Q39: Which of the following parameters is not used in the monitor unit (MU) calculation in the SSD technique?	
A	Percentage depth dose
B	SSD factor
C	Tissue Maximum Ratio
D	Collimator scattering factor
Correct Ans: C	

<u>Itemcode</u> : MP1040	
Q40: Which of the following is the 80% isodose line for electrons?	
A	Electron energy (MeV) /2
B	Electron energy (MeV)/3
C	Electron energy (MeV)/4
D	Electron energy (MeV)/6
Correct Ans: B	

<u>Itemcode</u> : MP1041	
Q41: Bragg peak is not observed in -----?	
A	Alpha particles
B	Pi-mesons
C	Protons
D	Electron beams
Correct Ans: D	

<u>Itemcode</u> : MP1042	
Q42: Which of the following is the most radiosensitive phase of the cell cycle?	
A	G1-S
B	G1-M
C	G2-M
D	S-M
Correct Ans: C	

<u>Itemcode</u> : MP1043	
Q43: Which of the following organs/tissues has the lowest tissue-weighting factor?	
A	Gonads
B	Lung

C	Bone marrow
D	Skin
Correct Ans: D	

<u>Itemcode</u> : MP1044	
Q44: Which of the following parameters affects the cell survival curve?	
A	Cell cycle
B	Dose rate
C	Repair of lethal damage
D	Oxygenation
Correct Ans: S (S Denotes question scrapped and no credit to Candidates.)	

<u>Itemcode</u> : MP1045	
Q45: Which of the following matches is not correct for ICRU reports?	
A	ICRU 72 - external therapy
B	ICRU 38 - brachytherapy
C	ICRU 71 - electron therapy
D	ICRU 78 - proton therapy
Correct Ans: A	

<u>Itemcode</u> : MP1046	
Q46: Which of the following is not correct for the bladder reference point?	
A	The Foley catheter is placed in the bladder
B	This is the inferior-most point of the balloon in the anterior-posterior film
C	The Foley balloon is filled with 7 cc of radio opaque material
D	The catheter is pulled back and stabilized in the bladder neck
Correct Ans: B	

<u>Itemcode</u> : MP1047	
Q47: What is the single fraction tolerance dose of the spinal cord?	
A	0.1 Gy
B	1.0 Gy
C	8 Gy
D	2 Gy
Correct Ans: C	

<u>Itemcode</u> : MP1048	
Q48: Which of the following is not an extended RT field for Hodgkins Lymphoma?	
A	Waldeyer's field

B	The mini mantle
C	The inverse Y
D	The modified mantle
Correct Ans: A	

<u>Itemcode</u> : MP1049	
Q49: One of the neutrons transforms into a proton and an electron to give an excess amount of energy in its nucleus. This type of decay is called:	
A	Gamma emission
B	β^- decay
C	β^+ decay
D	Electron capture phenomenon
Correct Ans: B	

<u>Itemcode</u> : MP1050	
Q50: Which of the following particles consists of one up and two down quarks?	
A	Neutrons
B	Protons
C	Electrons
D	Pi-mesons
Correct Ans: A	

<u>Itemcode</u> : MP1051	
Q51: Which of the following match-ups concerning radiation unit is false?	
A	KERMA-curie
B	Absorbed dose-gray
C	Exposure-roentgen
D	Equivalent dose-Sievert
Correct Ans: A	

<u>Itemcode</u> : MP1052	
Q52: Which of the following is not a feature of cobalt-60 therapy units?	
A	The Co-60 source should be kept in a safe medium for nearly 53 years after source replacement
B	A source with activity of more than 3,000 Ci is replaced with a new one
C	The Co-60 unit can be used with good performance for tumors with a depth of less than 15 cm
D	Source replacement is required after 5–7 years of use.
Correct Ans: C	

<u>Itemcode</u> : MP1053	
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Q53: Which of the following is called the output factor?

- A** Collimator scattering factor
- B** Tissue maximum ratio
- C** Tissue phantom ratio
- D** Backscatter factor

Correct Ans: **A**

Itemcode : **MP1054**

Q54: In positron emission tomography (PET) the image is created by detection of:

- A** Positrons
- B** Auger electrons
- C** Characteristic x-rays
- D** Annihilation photons

Correct Ans: **D**

Itemcode : **MP1055**

Q55: The dose to a residents hand from a brachytherapy procedure is 25 mSv. The number of procedures the resident can perform in a year without exceeding the recommended dose limit is:

- A** 20
- B** 10
- C** 2
- D** 1

Correct Ans: **A**

Itemcode : **MP1056**

Q56: The factors which determine the quantity of scatter radiation are:

- A** Only mAS and kVP
- B** Only Part thickness and field size
- C** Only Field size and kVP
- D** Kilovoltage (kvp), Field size and part thickness

Correct Ans: **D**

Itemcode : **MP1057**

Q57: Which of the following is the most significant parameter relating radiation exposure to the risk involved?

- A** absorbed dose
- B** equivalent dose
- C** effective dose
- D** cumulative dose

Correct Ans: **C**

Itemcode : **MP1058**

Q58: A small focal spot is used to:

- | | |
|----------|--|
| A | reduce image blurring |
| B | reduce patient exposure |
| C | increase the visibility of detail |
| D | reduce image blurring and increase visibility of details |

Correct Ans: **D**

Itemcode : **MP1059**

Q59: The reflecting layer in the intensifying screens is made up of:

- | | |
|----------|--------------------|
| A | TiO ₂ |
| B | CaWO ₄ |
| C | GdO ₂ S |
| D | all of the above |

Correct Ans: **A**

Itemcode : **MP1060**

Q60: The ability to differentiate closely spaced structures in the subject as separate entities in the image is known as:

- | | |
|----------|---------------------|
| A | geometric sharpness |
| B | contrast |
| C | edge enhancement |
| D | resolution |

Correct Ans: **D**

Itemcode : **MP1061**

Q61: The process by which electrons are emitted from an x ray cathode filament is known as:

- | | |
|----------|---------------------|
| A | ionization |
| B | thermoluminescence |
| C | photoconduction |
| D | thermionic emission |

Correct Ans: **D**

Itemcode : **MP1062**

Q62: Molybdenum, traditionally used as a x-ray anode in mammography because of its:

- | | |
|----------|------------------------------------|
| A | characteristic x-rays |
| B | good heat capacity |
| C | efficient bremsstrahlung radiation |

D	intrinsic filtration
Correct Ans: A	

Itemcode : MP1063	
Q63: Preferred KV for routine chest x ray is:	
A	70kv
B	125kv
C	90kv
D	not more than 100kv
Correct Ans: B	

Itemcode : MP1064	
Q64: RF shielding in MRI magnet room is done using:	
A	lead
B	titanium
C	copper
D	bismuth
Correct Ans: C	

Itemcode : MP1065	
Q65: The SI Unit of linear energy transfer(LET) is:	
A	MeV/cm
B	eV/m
C	KeV/ μ m
D	eV
Correct Ans: S (S Denotes question scrapped and no credit to Candidates.)	

Itemcode : MP1066	
Q66: The occupational annual equivalent dose limit for eye lens is:	
A	50mSv
B	20mSv
C	150mSv
D	500mSv
Correct Ans: B,C	

Itemcode : MP1067	
Q67: The photoelectric absorption coefficient varies with energy as:	
A	E^3
B	$1/E^3$

C	E^2
D	$1/E^2$
Correct Ans: B	

<u>Itemcode</u> : MP1068	
Q68: A 24 cm field of view is imaged using a 512 matrix, what is the pixel size?	
A	0.25mm
B	0.5mm
C	0.75mm
D	1.0mm
Correct Ans: B	

<u>Itemcode</u> : MP1069	
Q69: The formula for computing the value of the CT number is based on the	
A	Electron density of water
B	Linear attenuation coefficient of water
C	Mass attenuation coefficient for water
D	Mass density of water
Correct Ans: B	

<u>Itemcode</u> : MP1070	
Q70: Which of the following will increase spatial resolution in a CT image?	
A	Increase mA from 200mA to 400mA
B	Increase slice thickness from 5mm to 10mm
C	Increase matrix size from 256x256 to 512x512
D	Increase scan time from 2 seconds to 4 seconds
Correct Ans: C	

<u>Itemcode</u> : MP1071	
Q71: Best way to compensate for a partial volume artifact is to	
A	Use a thinner slice section
B	Change the reconstruction filter
C	Correct the detector array
D	Increase matrix size
Correct Ans: A	

<u>Itemcode</u> : MP1072	
Q72: The center of K space contains	
A	Low Frequency information

B	Degree of T2 weighting
C	Fine details of image
D	Temporal resolution
Correct Ans: A	

Itemcode : MP1073	
Q73: Which statement is incorrect?	
A	Fat has short T1 and T2 time
B	Water has long T1 and T2 time
C	T1 and T2 relaxation time of tissue are independent from magnetic field strength
D	To produce high signal, there must be a large component of coherent magnetization in the transverse plane to induce a large signal in coil
Correct Ans: C	

Itemcode : MP1074	
Q74: Scan time does not directly depend on which of the following	
A	TR
B	Number of phase encoding
C	Number of averages
D	TE
Correct Ans: D	

Itemcode : MP1075	
Q75: Which statement is correct regarding chemical shift artifact?	
A	It decreases with increasing field strength
B	It appears in phase axis
C	It decreases with increasing bandwidth
D	None of the above
Correct Ans: C	

Itemcode : MP1076	
Q76: All the following statement regarding TLD are true except	
A	TLD are reusable
B	TLD is a personal radiation monitor
C	TLD use a lithium fluoride phosphor
D	After x-ray exposure, TLD emit heat in response to stimulation by light
Correct Ans: D	

Itemcode : MP1077	
Q77: The interaction between x-ray photon and tissue that is responsible for radiographic contrast but that also	

contributes significantly in patient dose	
A	Photoelectric effect
B	Compton scatter
C	Coherent scatter
D	Pair production
Correct Ans: A	

<u>Itemcode</u> : MP1078	
Q78: Image intensifier tubes input phosphor functions to convert	
A	Kinetic energy to light
B	X-rays to light
C	Electrons to light
D	Fluorescent light to electrons
Correct Ans: B	

<u>Itemcode</u> : MP1079	
Q79: Which of the following term is used to express resolution	
A	Kiloelectronvolts (KeV)
B	Modulation transfer function (MTF)
C	Relative speed
D	Latitude
Correct Ans: B	

<u>Itemcode</u> : MP1080	
Q80: Occupationally radiation exposure during CT imaging is principally due to.	
A	leakage from the x ray tube.
B	Scatter from the patient.
C	Useful beam penetration.
D	scatter from gantry.
Correct Ans: B	

<u>Itemcode</u> : MP1081	
Q81: Which of the following is not the feature of the Shivalik Hills (Himachal Pradesh)?	
(i) They include the lower valleys of a large number of districts.	
(ii) Their altitude ranges from 350 meters to 3500 meters.	
(iii) There takes place frequent soil erosions in the rainy seasons mostly.	

A	(ii) only.
B	(i) only.
C	(i) & (iii).
D	(iii) only.
Correct Ans: A	

<u>Itemcode</u> : MP1082											
Q82: Match the following peaks with the district of their location in H.P:											
	<table border="0"> <thead> <tr> <th style="text-align: left;"><u>Peaks</u></th> <th style="text-align: left;"><u>District</u></th> </tr> </thead> <tbody> <tr> <td>(i) Murangla</td> <td>(a) Lahaul-Spiti.</td> </tr> <tr> <td>(ii) Jorkaden</td> <td>(b) Kullu.</td> </tr> <tr> <td>(iii) Pir Panjal</td> <td>(c) Kinnaur.</td> </tr> <tr> <td>(iv) Shitidhar</td> <td>(d) Chamba.</td> </tr> </tbody> </table>	<u>Peaks</u>	<u>District</u>	(i) Murangla	(a) Lahaul-Spiti.	(ii) Jorkaden	(b) Kullu.	(iii) Pir Panjal	(c) Kinnaur.	(iv) Shitidhar	(d) Chamba.
<u>Peaks</u>	<u>District</u>										
(i) Murangla	(a) Lahaul-Spiti.										
(ii) Jorkaden	(b) Kullu.										
(iii) Pir Panjal	(c) Kinnaur.										
(iv) Shitidhar	(d) Chamba.										
A	(ii) – (d); (iii) – (b); (iv) – (a); (i) – (c).										
B	(iii) – (b); (iv) – (a); (i) – (c); (ii) – (d).										
C	(iv) – (c); (iii) – (d); (ii) – (b); (i) – (a).										
D	(i) – (a); (ii) – (c); (iii) – (d); (iv) – (b).										
Correct Ans: D											

<u>Itemcode</u> : MP1083	
Q83: Identify the following three districts of Himachal Pradesh, where nearly half of State’s population is concentrated?	
A	Lahaul-Spiti, Mandi and Sirmaur.
B	Sirmaur, Kangra and Hamirpur.
C	Mandi, Kangra and Shimla.
D	Kangra, Una and Kinnaur.
Correct Ans: C	

<u>Itemcode</u> : MP1084	
Q84: Which of the following statement is correct about the state of literacy in the districts of Himachal Pradesh in the Censuses of 2001 and 2011?	
(i) All districts show improvement in literacy in 2011 over the Census of 2001.	
(ii) Nearly half the districts show decline in literacy.	
(iii) Only two districts, namely Lahaul-Spiti and Chamba show a slight decline.	
A	(i) only.
B	(ii) only.

C	(iii) only.
D	(i) & (iii).
Correct Ans: A	

<u>Itemcode</u> : MP1085	
Q85: In which following four Censuses, there was a sharp decline of percentage in Scheduled Caste population of the State of H.P.?	
A	Census of 1981.
B	Census of 1991.
C	Census of 2001.
D	Census of 2011.
Correct Ans: C	

<u>Itemcode</u> : MP1086	
Q86: Identify the correct position of Himachal Pradesh women's work participation in comparison to the Special Category States of North-East India from the following :	
(i) It is fairly high.	
(ii) It is much lower.	
(iii) While it is higher in some cases, lower in a few others.	
(iv) It is higher to Sikkim only.	
A	(i) only.
B	(ii) only.
C	(iii) only.
D	(iv) only.
Correct Ans: B	

<u>Itemcode</u> : MP1087	
Q87: Which of the following is not one of the problems of the development of Agriculture in Himachal Pradesh?	
(i) Scattered and small land holdings.	
(ii) Occurrence of natural calamities.	
(iii) Higher irrigation revenue cess.	
A	(i) only.
B	(ii) only.
C	(iii) only.
D	(iii) & (ii).
Correct Ans: C	

<u>Itemcode</u> : MP1088	
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Q88: Match the following temples with their locations (districts) in H.P.:

- | | |
|------------------------------|--------------|
| (i) Bajreshwari Temple | (a) Kullu. |
| (ii) Jagannath Temple | (b) Kangra. |
| (iii) Lakshmi Narayan Temple | (c) Chamba. |
| (iv) Manu's Temple | (d) Sirmaur. |

A (i) – (b); (ii) – (d); (iii) – (c); (iv) – (a).

B (ii) – (c); (iii) – (a); (iv) – (b); (i) – (d).

C (iii) – (c); (iv) – (b); (i) – (d); (ii) – (a).

D (iv) – (d); (i) – (c); (ii) – (a); (iii) – (b).

Correct Ans: **A**

Itemcode : **MP1089**

Q89: For the promotion of which sport, the Parshuram Award was awarded by the Government of H.P. to Sonia Rai in 2012?

A Kabaddi.

B Shooting.

C Boxing.

D Athletic.

Correct Ans: **B**

Itemcode : **MP1090**

Q90: Identify the Raja of Chamba (HP) in whose reign the earliest inscriptions were executed?

A Sahil Varman.

B Bal Varman.

C Aditya Varman.

D Meru Varman.

Correct Ans: **D**

Itemcode : **MP1091**

Q91: Which of the following is correct about the States Reorganization Act, 1956?

(i) It was passed by accepting all the recommendations of the States Reorganization Commission.

(ii) It provided for 14 States and six Union Territories.

(iii) The Telengana area of the State of Hyderabad was transferred to Andhra and Karnataka.

A (i) only.

B (ii) only.

C (iii) only.

D (i) & (iii).

Correct Ans: **B**

Itemcode : **MP1092**

Q92: Which of the following Constitutional Amendments were aimed at further strengthening the hands of State legislatures for implementing the abolition of Zamindari?

- | | |
|----------|-----------------------------------|
| A | The 1st and the 4th Amendments. |
| B | The 1st and the 3rd Amendments. |
| C | The IIInd and the 4th Amendments. |
| D | The 1st and the 2nd Amendments. |

Correct Ans: **A**

Itemcode : **MP1093**

Q93: Match the following authors with their works :

- | | | | | |
|-------|---------------------------|---|-----|-------------------------|
| (i) | R.K. Narayan | - | (a) | Rajmohan's Wife. |
| (ii) | Bankim Chandra Chatterjee | - | (b) | A Suitable Boy. |
| (iii) | Vikram Seth | - | (c) | The Great Indian Novel. |
| (iv) | Shashi Throor | - | (d) | Swami and Friends. |

- | | |
|----------|---|
| A | (ii) - (b); (iii) - (a); (iv) - (d); (i) - (c). |
| B | (iii) - (c); (iv) - (d); (i) - (b); (ii) - (a). |
| C | (i) - (d); (ii) - (a); (iii) - (b); (iv) - (c). |
| D | (iv) - (b); (i) - (a); (ii) - (c); (iii) - (d). |

Correct Ans: **C**

Itemcode : **MP1094**

Q94: Which of the following is true about India's Kalapani Border problem with Nepal?

- (i) Nepal has been claiming this territory from India as its own since 2000 A.D.
- (ii) Nepal says that it lies in its Darchula district.
- (iii) This territory lies in the Pithoragarh district of Uttarakhand State of India.

- | | |
|----------|---------------|
| A | (i) & (ii). |
| B | (ii) & (iii). |
| C | (iii) & (i). |
| D | (i) only. |

Correct Ans: **B**

Itemcode : **MP1095**

Q95: The Economic Survey of India - 2020 records that India has only Bank / Banks in the list of Global Top - 100 Banks:

- | | |
|----------|-------|
| A | Four. |
|----------|-------|

B	Three.
C	Two
D	One
Correct Ans: D	

<u>Itemcode</u> : MP1096	
Q96: Which of the following country has remade the Hagia Sophia Museum a mosque?	
A	Saudi Arabia.
B	Turkey.
C	Iran.
D	Iraq.
Correct Ans: B	

<u>Itemcode</u> : MP1097	
Q97: Which of the following President of USA has been impeached by the House of Representatives twice:	
A	Donald Trump.
B	Bill Clinton.
C	John F. Kennedy.
D	George Bush.
Correct Ans: A	

<u>Itemcode</u> : MP1098	
Q98: Which of the following is true about the Historic Agreement between USA and Taliban regarding the future of Afghanistan?	
(i) It paves the way for the full withdrawal of American troops from Afghanistan.	
(ii) It will end the longest fought war of the USA.	
(iii) The Agreement was signed between USA and Taliban in Riyadh (Saudi Arabia) in 2020.	
A	(i) & (iii).
B	(i) & (ii).
C	(ii) & (iii).
D	(iii) only.
Correct Ans: B	

<u>Itemcode</u> : MP1099	
Q99: Identify Lee Kuan Yew with his country :	
A	South Korea.

B	Taiwan.
C	Myanmar.
D	Singapore.
Correct Ans: D	

<u>Itemcode</u> : MP1100	
Q100: The FIFA World Cup – 2018 (Football) was hosted by which of the following country?	
A	France.
B	Great Britain.
C	Russia.
D	Germany.
Correct Ans: C	